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ABSTRACT

A sourcebook that provides descriptions of more than 130 telecourses produced for higher education is presented. Listings include information on the level of content, format, producer, length of program, production date, ancillary materials, and availability of the courses. A brief course description is included, along with listings of lesson titles. Courses selected met the standards of the highly-rated two- and four-year colleges. They can be used with existing curricular offerings and academic areas, and serve to expand opportunities for extending education beyond traditional campus settings. Courses fall into two categories: those that can be broadcast, are likely to be used by large numbers of colleges and universities, and are likely to be offered for credit; and those that are not available for broadcast, or are likely to be used by only a few institutions apart from the producer, or are likely to be used only for noncredit. The courses are current--no more than 6 years old. The telecourses are listed by academic areas and professional fields. (SW)

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TELECOURSE INVENTORY

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INTRODUCTION

This inventory was prepared by the Center for Learning and Telecommunications, a program supported by the Carnegie Corporation of New York at the American Association for Higher Education. The original listing of telecourses, updated for this publication, was compiled by the Annenberg/CPB Project, which provided funding for the publication and dissemination of this document.

In the preparation of Telecourse Inventory, 1984, some 30 institutions or organizations known to produce and distribute college-level telecourses were contacted. Nearly 900 courses were examined and 139 were judged to meet the criteria developed for this inventory.

In general, the courses selected are those that meet standards typical of the finest two- and four-year colleges, can be used with existing curricular offerings and academic areas, and serve to expand opportunities for extending education beyond traditional campus settings. Moreover, the course materials must be readily available; they must be current--no more than six years old; there must be six or more programs in the course; ancillary materials should be available; courses should be useful to a number of colleges and universities, and not only to the producing institution; and programs must meet generally accepted engineering standards.

Courses included in the inventory fall into two categories: those that are broadcastable, are likely to be used by large numbers of colleges and universities, and are likely to be offered for credit; and those that are not available for broadcast, or are likely to be used by only a few institutions apart from the producer, or those that are likely to be used only for noncredit. Courses in this second category are noted in the list appearing on page 3.

Some courses that met most of the criteria were omitted from this publication. These omissions occurred either because the producing institution did not wish to make the courses generally available, or, in a few cases, because of a lack of response to our requests for updated information.

We anticipate that this inventory will stimulate further interest in the delivery of instruction through telecommunications. We hope it will be seen as a reference for ongoing efforts. We anticipate that updates will be made when a significant amount of new resourses become available.

Finally, we would like to express our appreciation to the individuals and institutions that assisted in compiling this inventory: Peter Dirr of the Annenberg/CPB Project, who initiated the idea of publishing the inventory and supervised the original compilation; Art Sheekey, senior associate at AAHE, who compiled the course descriptions; Charlotte Marson, who edited and produced the book; Diane Calingo, who prepared the cover design; and Joan Gudgel and Linda Pratt of the Center staff who provided a variety of services in this effort.

We all look forward to your comments, criticisms, and contributions to future editions of the Telecourse Inventory.

Marilyn Kressel
Director
Center for Learning and Telecommunications
Washington, DC
July 1984

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ARTS AND HUMANITIES

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Art

TITLE: Applied Sketching Techniques

PRODUCER: Coast Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1976 LEVEL: Lower

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Fundamental elements of freehand drawing and art; introduces more advanced techniques and concepts, and helps student develop ability to progress to more difficult and interesting forms of drawing. Sequel to Freehand Sketching I. No previous experience or course needed.

LESSON TITLES:

1. Drawing in Three Dimensions
2. The Classic Artists
3. The Two-Pencil Technique
4. Use of Values, Color, and Texture
5. Thumbnail Sketches
6. Drawing and Communication
7. Architectural Structures
8. Creating Mood in Drawing
9. Considering Proportion
10. Dominance Helps Tell Your Story
11. Landscape
12. Design and Decoration
13. Still Life
14. Repetition: A Basic and Familiar Tool
15. The Special Effects of Action
16. Interiors
17. Look to the Flowers for Study
18. Eyes and Expressions
19. Drawing Heads
20. Wood and Things Made of Wood
21. Style in Drawing
22. Special Effects
23. Media and Their Use
24. Drawing Animals
25. Looking for New Ideas
26. Hands Are Interesting and Expressive
27. Designing Vehicles
28. Two Kinds of Wrinkles
29. Caricature
30. Using What We've Learned

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Art

TITLE: Art America

PRODUCER: Northern Virginia Community College

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1976 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks

RIGHTS: Contact Children's Television International

COURSE DESCRIPTION:

Course for use in college history curricula and continuing eduction programs. Traces history of fine arts in the U.S., focusing on painting, sculpture, architecture, and photography. Emphasizes themes and key concepts in development of the fine arts in America.

LESSON TITLES:

1. In Search of A Visual Tradition
2. Artisans to Artists
3. America's Old Masters
4. The Young Republic
5. Preserving the Landscape
6. The Creation of a Self Image
7. Exploring the Wilderness
8. The Visionaries
9. The Expatriates
10. The Epic of the Common Man
11. The Columbian Exposition
12. The Melting Pot
13. The Armory Show
14. America Achieves an Avant-Garde
15. Politics and Art Between the Wars
16. Art for the Masses
17. Abstract Expressionism
18. The Fifties: Painting and Sculpture at Mid-Century
19. The Sixties
20. The Visual Tradition After 200 Years

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Art

TITLE: Freehand Sketching

PRODUCER: Coast Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1973 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, academic and administrative support package

RIGHTS: Contact producer

COURSE DESCRIPTION:

Beginning course for persons with little or no previous art experience. Emphasis on controlling shapes and directions of three-dimensional objects and the use of drawing for visual communication.

LESSON TITLES:

1. Drawing as an Undeveloping Resource
2. Elements of Drawing
3. Alignment: Teaching Linear Perspective
4. Shading
5. Preferred Angle of Vision
6. The Drawing Compass
7. Cross Alignment
8. Timed Practicing
9. Six Levels of Drawing
10. Elongated Objects in Level Two
11. Linear Perspective, Directions 1 and 7
12. Contour Lines
13. Step Relationships
14. Ribbon Relationships
15. Vertical and Perpendicular
16. Recessed Thicknesses
17. Forming Thicknesses
18. Size Relationship
19. Overlapping As Another Way to Achieve Three Dimensions
20. Aerial Perspective Density
21. Touchstones, Research, and Appreciation
22. Concentric, Foreshortened Curves and Circles
23. Application of Shading and Shadows
24. Above Eye Level: A Different Perspective
25. Compound Drawing
26. Elements of Art
27. The Secret City
28. Anatomy
29. Structure
30. Utilization

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Art

TITLE: Shock of the New

PRODUCER: British Broadcasting Corporation*

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact Time-Life Video

COURSE DESCRIPTION:

Explores social history as seen through the lens of art. Describes the state of mind of "modernism," which first appeared in Europe around 1857. Shows how major works of the 20th century have enlarged the scope of our experience, taught us to live more fully, and dissolved our prejudices about what a work of art can mean.

LESSON TITLES:

1. The Mechanical Paradise
2. The Shapes of Dissent
3. The Landscape of Pleasure
4. Trouble in Utopia
5. The Threshold of Liberty
6. The Sublime and Anxious Eye
7. Culture as Nature
8. The End of Modernity

NOTES:

*Produced in conjunction with Time-Life Television

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Drama

TITLE: Drama: Play, Performance, Perception

PRODUCER: Miami-Dade Community College*

FORMAT: Video

NUMBER OF PROGRAMS: 14 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1978 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, student study guide

RIGHTS: Contact Films Incorporated

COURSE DESCRIPTION:

Based upon adaptations of 14 major plays; serves as Introduction to the Theatre course. Plays grouped into five thematic modules: Introduction to Critical Appreciation; Playwrights and Plotting; Dramatis Personae: Heroes/Heroines/Rogues/Villains; The Conventions of Theatre; and Backstage/Behind the Scenes.

LESSON TITLES:

1. Peer Gynt
2. The Wild Duck
3. The Three Sisters
4. The Ghost Sonata
5. Oedipus Tyrannus
6. Macbeth
7. Woyzeck
8. St. Joan
9. The Venetian Twins
10. The Way of the World
11. Sizwe Bansi Is Dead
12. Ubu Roi
13. Six Characters in Search of an Author
14. Actor and Director ("Miss Julie" in rehearsal)

NOTES:

*Produced in conjunction with the BBC-British Open University

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Drama

TITLE: Emerging Playwrights

PRODUCER: New York State Department of Education

FORMAT: Video

NUMBER OF PROGRAMS: 11 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Viewer's guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

New playwrights and plays of the American theatre are presented with excerpts from each. Guests discuss the role of contemporary theatre in American life.

LESSON TITLES:

1. Richard Barr and Ellen Stewart
2. Robert Patrick and Lanford Wilson
3. Jonathan Reynolds and Tony LoBianco
4. Peter Copani
5. David Mamet
6. Albert Innaurato and Marshall Mason
7. John Guare and George White
8. Chris Durang, George White, and Lloyd Richards
9. Ernest Thompson and Craig Anderson
10. Lloyd Richards, Steve Cater, and Douglas Turner Ward
11. Lloyd Richards, Gus Edwards, and Gerald Krone

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Drama

TITLE: Shakespeare's Plays

PRODUCER: Br.tish Broadcasting Company

FORMAT: Video

NUMBER OF PROGRAMS: 36 LENGTH OF PROGRAMS: 150 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact PBS Adult Learning Service

COURSE DESCRIPTION:

Major productions of Shakespeare's plays by the British Broadcasting Corporation.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Communications

TITLE: Communication Is...

PRODUCER: Milwaukee Area Technical College

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Emphasis on the process of improving students' reading, writing, speaking, and listening skills. Objective is to explore forms and uses of communication, including mass media.

LESSON TITLES:

I. Introduction
1. What It's All About
2. Up to You

II. Discussion
3. Discussion for Democracy
4. Forms of Discussion
5. Researching the Problem
6. Discussing the Problem
7. Solving the Problem
8. You--The Discussion Leader
9. You--The Discussion Group
10. Putting It All Together

III. Persuasion
11. Endless Persuasion
12. Persuasive Appeals
13. Persuasion Gone Awry
14. Speaking Persuasively
15. Looking Back--A Review

IV. Writing
16. Basic Writing Skills
17. Sensible Sentences
18. Writing It Right
19. The Research Paper
20. Using the Library
21. The Technical Report
22. The Business Letter
23. The Job Application

V. Media and Literature
24. The Many Modes of Media
25. The 21-Inch World
26. Viewing the News
27. Film
28. The Novel
29. Poets and Poetry
30. What It Was All About--
A Review

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Communications

TITLE: The Language: Thinking, Writing, Communicating

PRODUCER: International University Consortium

FORMAT: Video

NUMBER OF PROGRAMS: 9 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Textbook

RIGHTS: For nonbroadcast rights contact Maryland Center for Public Broadcasting; for cable rights contact IUC

COURSE DESCRIPTION:

Hosted by Ron Canada, series is overall view of language and communication with each program exploring a different aspect of the genre of communication. Programs feature linguist Walt Wolfman from the Center for Applied Linguistics; Ellen Goodman, Pulitzer Prize winning columnist; advertising professional and former senator Eugene McCarthy discussing dialects, jargon, good writing techniques, linguistics, and the history of the English language.

LESSON TITLES:

1. The Shape of Language
2. Communities of Speech
3. Language, Learning, and Children
4. The Rhyme and Reason of Politics
5. The Written Work
6. Men, Women, and Language
7. Just Plain English
8. Apes and Language
9. The State of English

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Communications

TITLE: Principles of Human Communications

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Lower

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Identifies and explains the basic concepts of human communication. Objective is to heighten viewer awareness of such communication and thus develop in the viewers better control of their communicating abilities--both as senders and receivers of messages. Features interviews with experts in the communication field and role-playing activities designed to demonstrate specific aspects of the communication process.

LESSON TITLES:

1. Learning the Process
2. The First Steps
3. Knowing the Rules
4. What Do You Mean?
5. Sound and Movement
6. Space and Touch
7. Who Listens?
8. And the People Merely Players
9. The Interpersonal Bond
10. Playing Communication Games

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Composition

TITLE: Communicating Through Literature

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Instruction in composition combined with introduction to literary genre. Includes dramatized segments and concrete examples from works of many writers of several periods. Course stresses the art of writing literature and the skill of writing about literature.

LESSON TITLES:

1. Why Study Literature?
2. Writing About Literature
3. Introduction to Fiction
4. Basic Elements of the Short Story
5. Themes in Fiction
6. Universal Themes in Fiction
7. A Look at Science Fiction
8. Writing About Fiction
9. Introduction to Poetry
10. Forms of Poetry
11. Language of Poetry
12. Theme and Voice in Poetry
13. A Contemporary Poet
14. Introduction to Drama
15. Oedipus the King
16. "The Boor"
17. "Riders to the Sea"
18. Contemporary Theatre
19. Writing About Drama
20. Film History I
21. Film History II
22. The Making of a Film
23. Writing About Film
24. Introduction to Non-Fiction
25. More Non-Fiction
26. Literary Essay I
27. Literary Essay II
28. Conclusion I
29. Conclusion II

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Composition

TITLE: The Write Course: An Introduction to College Composition

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1984 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, tests, writing assignments, faculty guide, adminstrative guide, implementation videotape, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Teaches English composition from a "process" point of view; presents deliberate strategies for pre-writing and revision with emphasis on audience awareness and purpose as tools for writing effectively. Each program contains real-life adaptations of the writing processes at work. Professional writers and the nation's leading writing authorities are interviewed throughout and academic content is enhanced by dramatizations and mini-documentaries. Course covers basic writing skills, such as pre-writing and shaping a thesis; planning a composition; and composing effective sentences, paragraphs, and essays; and prepares students to think more logically and critically.

LESSON TITLES:

1. The Beginning
2. Why Write?
3. The Writing Process
4. The Audience
5. Audience and Style
6. Discovering Ideas
7. The Drama of Thinking
8. Sharpening the Focus
9. Structuring the Topic
10. Beginning and Ending
11. Developing Form
12. Narration and Description
13. Process and Analysis
14. Definition
15. Argumentation
16. Paragraph Patterns
17. Sentence Patterns
18. Sentence Strategy
19. Words and Meanings
20. Word Strategy
21. Revision Strategies
22. Using the Writer's Tools
23. Discovering the Library
24. Writing a Research Paper
25. Writing About Books
26. The Essay Test
27. Writing at Work
28. Report and Proposal Writing
29. Style
30. New Directions

NOTES:

*Produced in cooperation with the Florida State Department of Education, the Southern California Consortium for Community College Television, Coast Community Colleges, and Holt, Rinehart and Winston.

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Composition/Literature

TITLE: Writer's Workshop

PRODUCER: South Carolina ETV and University of South Carolina

FORMAT: Video

NUMBER OF PROGRAMS: 15 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Not supplied

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Series of programs featuring some of contemporary literature's major talents in both fiction and nonfiction whose specialities range from poetry to film criticism. For experienced or aspiring writers, book lovers, and anyone interested in the writing process, the series offers insight into methods and experience of 15 major craftsmen.

LESSON TITLES:

1. Kurt Vonnegut
2. Nora Ephron
3. Tom Wolfe
4. Pauline Kael
5. John Gardner
6. John Hawkes
7. John Irving
8. James Dickey
9. Stephen Spender
10. George Plimpton
11. Susan Sontag
12. James McPherson
13. William Styron
14. Reynolds Price
15. William Price Fox

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Composition

TITLE: Writing for a Reason

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1974 LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

First-semester college freshman composition course covering basic writing skills such as choosing and shaping a thesis, planning a composition, composing effective sentences, paragraphs, and essays. Prepares students to think more logically and critically. Also covers high points about the way language functions historically, socially, and psychologically. Students discuss their particular writing problems and demonstrate techniques for solving them with their writing consultants.

LESSON TITLES:

1. The Beginning
2. Language Options
3. The Nature of Communication
4. Readiness: Audience and Persona
5. The Paragraph
6. Unity
7. Order
8. Completeness
9. Coherence
10. The Essay
11. Special Paragraphs: Introduction
12. Special Paragraphs: Conclusions and Transitions
13. The Paper of Definition
14. The Dictionary
15. The Paper of Comparison
16. The Essay Test
17. The Paper of Classification
18 Words I
19. Words II
20. The Paper of Analysis
21. The Sentence I
22. The Sentence II
23. The Report
24. Epistemology and Logic
25. Fallacies
26. The Persuasive Paper
27. The English Language: A Brief History
28. The Evaluative Essay
29. The Letter of Application
30. Style

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Literature

TITLE: The American Short Story

PRODUCER: South Carolina ETV Network*

FORMAT: Video

NUMBER OF PROGRAMS: 17 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Stories range from humorous to tragic and reflect the treasures and riches of American literature, history, and culture by some of our most gifted writers.

LESSON TITLES:

First Series
1. "Bernice Bobs Her Hair"-- F. Scott Fitzgerald
2. "I'm a Fool"--Sherwood Anderson
3. "The Displaced Person"-- Flannery O'Connor
4. "The Blue Hotel"--Stephen Crane
5. "Soldier's Home"--Ernest Hemingway
6. "Almos' a Man"--Richard Wright
7. "Parker Adderson, Philosopher"--Ambrose Bierce
8. "The Jolly Corner"-- Henry James
9. "The Music School"--John Updike

Second Series
10. "Paul's Case"-- Willa Cather
11. "Barn Burning"--William Faulkner
12. "The Sky is Grey"--Ernest Gaines
13. "Rappaccini's Daughter"-- Nathaniel Hawthorne
14. "The Golden Honeymoon"-- Ring Lardner
15. "The Jilting of Granny Weatherall"--Katherine Anne Porter
16. "The Greatest Man in the World"--James Thurber
17. "The Man That Corrupted Hadleyburg"--Mark Twain

NOTES:

*Produced in conjunction with WGBH/Boston

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Literature

TITLE: Anyone for Tennyson

PRODUCER: Nebraska ETV Network

FORMAT: Video

NUMBER OF PROGRAMS: 50 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1976-78 LEVEL: Lower

ANCILLARY MATERIALS: Descriptive leaflet

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Guest performances of some of the best and most popular poetry in the English language. Series uses live studio audiences and on-location shooting for its dramatizations of poetry.

LESSON TITLES:

1. The World of Emily Dickinson
2. Limericks, Epigrams, and Occasional Verse
3. Walt Whitman and the Civil War
4. Poems of the Sea
5. The Restoration Wits
6. The Heroic Tradition
7. Voices from the South
8. Longfellow: A Rediscovery
9. Invitation to Romance
10. A Journey Through Life: Edna St. Vincent Millay
11. Frontier Poetry
12. The Growth of a Poet: Sylvia Plath
13. An American Original: e.e. cummings
14. The American Dream
15. A Poetic Feast
16. A View of Four Centuries
17. A Program of Satire
18. Pulitzer Prize Poets--Part I
19. Pulitzer Prize Poets--Part II
20. A Quiet Evening with Mother Goose
21. New England in Autumn: The Poetry of Robert Frost
22. William Shakespeare: A Poet for All Time
23. The Poetical Art of William Blake
24. Thomas Hardy's Wessex
25. The Men Who Marched Away: Poetry from World War I
26. A Visit with Sir John
27. Poetry in Transition--Part I: Classical and Mediterranean
28. Poetry in Transition--Part II: Oriental and Russian
29. The Brontes of Hayworth
30. Portraits from Spoon River
31. The Lake Poets: Wordsworth and Coleridge
32. The Lowells: An American Family of Poets
33. A Tribute to Anonymous
34. Poets on Campus
35. So That's Where It's From!
36. Ogden and Dorothy, Phyllis and Yip

37. A Zooful of Poetry
38. The Glorious Romantics--
Part I: Lord Byron
39. The Glorious Romantics--
Part II: John Keats
40. The Glorious Romantics--
Part III: Percy Bysshe Shelley
41. In Praise of the Lord
42. William Butler Yeats:
The Heart of Ireland
43. Poetry of the Occult
44. D.H. Lawrence: A Restless
Spirit
45. Roger McGough and the
Liverpool Lads
46. Robert and Elizabeth
Browning
47. The Poetry of Youth
48. American Indian Poetry
49. The Pleasure of Poetry
50. Love Conquers All

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: English/Literature

TITLE: The World of F. Scott Fitzgerald

PRODUCER: Dallas County Community College District*

FORMAT: Audio

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Listener's guide, administrative guide, faculty guide, promotional materials, consultant service, study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Survey of the artistic, social, political, and economic milieu that helped create Fitzgerald's world and that of the two dozen other important writers featured in this course. Can be used as a complete three-semester-hour sophomore literature course for on- or off-campus, as a complete course in American studies, or as a unit within any literature, humanities, or history section about the United States in the 20th century.

LESSON TITLES:

1. Documentary: The Death of Heroism
   Dramatization: Emotional Bankruptcy
2. Documentary: The Spoiled Priest
   Dramatization: Absolution
3. Documentary: He Called It The Jazz Age
4. Documentary: The Golden Boom
   Dramatization: Winter Dreams
5. Documentary: Lost and Lucky
   Dramatization: One Trip Abroad
6. Documentary: The End of an Era
   Dramatization: Family in the Wind
7. Documentary: The Most Famous Forgotten Writer in America
8. Documentary: The Last Novelist
   Dramatization: The Lost Decade

NOTES:

*Produced in conjunction with National Public Radio

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Foreign Language

TITLE: Guten Tag in Deutschland

PRODUCER: Oregon Educational Public Broadcasting Service

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact PBS Adult Learning Service

COURSE DESCRIPTION:

Level I German language course produced as an Americanized version of Guten Tag. Presents situations, spoken in German, that are more familiar to American students.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Foreign Language

TITLE: Survival Spanish

PRODUCER: Miami-Dade Community College

FORMAT: Video and audio

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1984 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, workbook, audiotape script booklet, question booklet

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introductory course in conversational Spanish designed to provide beginning students with basic utilitarian conversations that can be applied to everyday situations. Uses present and past tenses including the indicative mood.

LESSON TITLES:

Unit I: Conversations in Retail Stores (Lessons 1-8)
Unit II: Conversations in a Restaurant (Lessons 9-14)
Unit III: Conversations in a Doctor's Office (Lessons 15-19)
Unit IV: Conversations in a Travel Agency (Lessons 20-26)

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Foreign Language

TITLE: Telespañol Uno

PRODUCER: University of Southern Florida, WUSF-TV

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Series can be basis of course to fulfill requirements for first quarter of beginning-level college Spanish. Comparative approach (to English) to the structure of Spanish, to develop all four basic language skills--listening, speaking, reading, and writing. Selected readings in Spanish provide basic concepts about the Hispanic culture.

LESSON TITLES:

1. The Spanish Sounds
2. Basic Sentences
3. The Possessives
4. Ser/Estar
5. Direct Object Pronoun
6. The Demonstratives
7. Indirect Object Pronoun
8. The Reflexes
9. The Adjectives
10. The Commands

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Humanities (General)

TITLE: Art of Being Human

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, student study guide, faculty manual. Second edition of print materials available. Instructional materials for the visually and hearing impaired also available.

RIGHTS: Contact producer, PBS Adult Learning Service, or Films Incorporated

COURSE DESCRIPTION:

Three-credit nontraditional, thematic approach (vs. chronological) to the humanities. Does not offer the history of Western cultures; rather it presents in understandable terms the major humanistic disciplines as resources through which all people can enhance the quality of their lives.

LESSON TITLES:
(30 programs, 15 modules)

1. The Man With No Time For Beauty/ Way of the Humanist
2. Art: Tell Me What I Am, Tell Us Who We Are/ Divine Discontent
3. From Sound to Music/ Jazz/Bach
4. The Ring of Gypes/ The Anguish of Abraham
5. The Outer Circle/ The Problem of Evil
6. Territory and Space/ The Still and Empty Center
7. The Tragic Vision/ Knaves and Fools
8. The Intricate Eye/ Television: The Electric Art
9. Myths, the Collective Dreams of Mankind/ The Dream of the Hero
10. Love: Myth and Mystery/ Roles We Play
11. In Search of Happiness, The Pursuit of the Idea
12. For Everything, A Season/ Phoenix and Finnegan
13. Sunlit Chariot/ Dionysus: Ecstasy and Freedom
14. A Cry of Freedom/ On The Bus
15. The Wonder of Form/ The World All Before Them

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Humanities (General)

TITLE: Humanities Through The Arts

PRODUCER: Coast Community College District*

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, administrative guide

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Surveys film, drama, music, literature, painting, sculpture, and architecture. Each is examined from four perspectives: historical context, elements of the art, form/meaning, and criticism/ evaluation.

LESSON TITLES:

1. The Quest for Self (Introduction to Course)
2. Film: Twentieth Century Legacy
3. Film: The Dynamic Illusion
4. Film: Not Just the Great Escape
5. Film: Seeing All There Is
6. Drama: An Imitation of Life
7. Drama: Nucleus of a Story
8. Drama: Meaning for Every Age
9. Drama: Great Age Ahead?
10. Music: Age-Old Search for Meaning
11. Music: Emotion and Feeling in Sound
12. Music: Meaning Through Structure
13. Music: Listening for the Unexpected
14. Literature: From Words, Truth
15. Literature: The Synthesis of Poetry
16. Literature: The Story Beyond
17. Literature: Behind the Words
18. Painting: Visions Through the Ages
19. Painting: Creating a Point of View
20. Painting: Rousseau-- The Lovely Dream
21. Painting: "... Things We Have Passed..."
22. Sculpture: Mirror of Man's Being
23. Sculpture: Elements of Dimension
24. Sculpture: Meaning Through Body's Form
25. Sculpture: Most Difficult of Arts
26. Architecture: The Evolving Skyline
26. Architecture: From Earth to Sky
27. Architecture: Meaning in a Poet's Vision
28. Architecture: The Shepherd of Space
30. Epilogue: Continuing the Quest for Self

NOTES:

*Produced in conjunction with City Colleges of Chicago

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Humanities (General)

TITLE: In Our Own Time

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Study guide, administrative guide, faculty guide, promotional materials, art prints, audio tape, test bank

COURSE DESCRIPTION:

Introduction to humanities focusing on how people see things and what they care about, as well as basic notions about the fine arts. Combines basic information about five major art areas (painting and sculpture, music, dance, theatre, and film) with behind-the-scenes explorations of these subjects.

LESSON TITLES:

1. On Being Human
2. A Choice of Values
3. The Creative Eye
4. The Image Explored
5. The Critical Process
6. The Artist at Work
7. The Changing Eye
8. The Artist Inside/Out
9. The Museums at Work
10. Inside Museums
11. Sounds Explored
12. Musical Possibilities
13. Country Cookin'
14. Sounds of the City
15. In Concert
16. Movement Possibilities
17. Dancers at Work
18. In Performance
19. Of Masks and Men
20. Behind the Curtain
21. The Theatre at Work
22. In Production
23. Opening Night
24. Through the Lens
25. On Location
26. Looking Back
27. The Business of Art
28. Private Places
29. Public Spaces
30. Looking Ahead

NOTES:

*Updated 1978

ACADEMIC AREA: Arts and Humanites

DISCIPLINE: Music

TITLE: Cello Sounds of Today: The Mechanics and Aesthetics of Modern Cello Playing

PRODUCER: Indiana University, Bloomington

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983, 1984 LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Lecture/demonstration with graphic support and musical examples by Fritz Magg, soloist, chamber music player, principal cellist of Vienna Symphony and Metropolitan Opera orchestras, and a teacher at Indiana's School of Music.

LESSON TITLES:

1. Introduction
2. Positioning the Player and His Cello; The Fusion of the Right Hand and the Bow
3. Basic Bow Strokes
4. General Orientation on the Fingerboard; Placing the Left Hand, Flexibility of the Webs; Intonation
5. Exercises in Thumb Position
6. Diatonic Sequences; Scales in Broken Thirds, Solid Thirds, and Sixths; Shifts
7. Scales and Scale Bowings
8. The Independence of the Fingers in Multiple Stops; Chords; Embellishment
9. Selected Tutti Passages from the Symphonic Literature
10. Symphonic Cello Soli

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Music/History

TITLE: Jazz: An American Classic

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, six-album record set

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Series examines the people, places, and events that influenced the development of jazz. Fifty jazz musicians and historians discuss the music as they see it, how it began, and why it continues to grow in America today.

LESSON TITLES:

1. Born in America
2. New Orleans Traditional
3. The Chicago Jazz Age
4. New York: Big Bands, the Swing Era
5. Kansas City: The Southwestern Style
6. Bop: The First Revolution
7. The Cool Sound
8. The Hard Bop Sound
9. The Sixties, The Seventies, and the Future (Part I)
10. The Sixties, The Seventies, and the Future (Part II)

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Music

TITLE: Topic Music

PRODUCER: Northern Virgina Community College

FORMAT: Audio

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Traces the evolution of musical styles beginning with the Middle Ages and Baroque through 20th century American folk music and jazz. Selected recordings are used as examples.

LESSON TITLES:

1. Elements of Form
2. Elements of Style
3. Instruments of the Orchestra--I
4. Instruments of the Orchestra--II
5. Musical Style of the Middle Ages and Renaissance
6. The Baroque Style
7. Instrumental Forms in the Baroque
8. Vocal Forms in the Baroque Style
9. The Classical Style
10. The Sonata Cycle
11. Musical Forms in the Classical Style
12. The Romantic Style
13. Forms of Music During the Romantic Period
14. Program Music as a Romantic Form
15. Style of 20th Century Music
16. 20th Century Impressionism and Expressionism
17. Neoclassicism and Serialism
18. Electronic Music
19. American Ethnic and Folk Music
20. Jazz

ACADEMIC AREA: Arts and Humanties

DISCIPLINE: Philosophy

TITLE: From Socrates to Sartre

PRODUCER: Maryland Center for Public Broadcasting

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower, upper

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Survey of development of philosophy in Western civilization through the writings of six major philosophers: Plato, Descartes, Hume, Hegel, Marx, and Sartre. Each author is considered in relation to his own culture and to our own as he continues to influence and stimulate debate on philosophic issues. The historical sequence is presented both as a series of intellectual conflicts and as a logical, continuous development, culminating in contemporary philosophic trends.

LESSON TITLES:

1. Introduction
2. Plato I: The Death of Socrates
3. Plato II: The Republic; the Socratic Method; the Allegory of the Cave
4. Plato III: Theory of Knowledge
5. Plato IV: Tripartite Soul and Contemporary Psychology
6. Plato V: Dualism
7. Descartes I: Scholasticism; Cartesian Rationalism
8. Descartes II: The Self-Evident First Principle; Cogito Ergo Sum
9. Descartes III: Proof of the Existence of God; The Cartesian Circle
10. Descartes IV: Proof of the Existence of Physical Objects
11. Descartes V: Psychophysical Dualism: Certainty Amid Doubt
12. Hume I: Rise of the Experimental Method
13. Hume II: Limits of Human Understanding; Association of Ideas
14. Hume III: Causality; Radical Empericism
15. Hume IV: Self, God, and Ethics: The Task of Refuting Hume
16. Hegel I: Conservative Nationalism; 19th Century German Philosophy
17. Hegel II: Dialectical Method; Thesis/Antithesis/Synthesis
18. Hegel III: Reason vs. Understanding; Philosophy of History
19. Hegel IV: The State vs. The Individual
20. Hegel V: Influence on Marx, Freud, and Sartre

21. Marx I: His Life; His Work as Official Doctrine
22. Marx II: Metaphysics, Dialectical Materialism
23. Marx III: Class Conflict; Withering Away of the State
24. Marx IV: Ethics; Marxism as Ideology; Leninism
25. Sartre I: Existentialism; Development from Kierkegaard and Nietzsche
26. Sartre II: Bad Faith; Ethics; Freedom; Dread and Nothingness
27. Sartre III: Metaphysics; Influence of Descartes, Hegel, Husserle
28. Sartre IV: Masochism and Sadism; Extremities of Hatred
29. The Contemporary Philosophic Scene
30. Conclusion

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Religion, Sociology

TITLE: The Long Search

PRODUCER: Miami-Dade Community College*

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact Time-Life Video

COURSE DESCRIPTION:

Exploration of living religions as practiced in today's world. Course is appropriate as an introduction to religion or sociology of religion courses. Hinduism, Buddhism, Judaism, Protestantism, Catholicism, Islam, and other religions are explored.

LESSON TITLES:

1. Three Hundred Thirty Million Gods--Hinduism
2. Protestant Spirit: USA--Protestantism
3. Footprint of the Buddha--Buddhism
4. Rome, Leeds, and the Desert--Catholicism
5. There Is No God But God--Islam
6. The Roman Solution--Orthodox Christianity
7. The Chosen People--Judaism
8. The Way of the Ancestors--Primal Religions
9. The Land of the Disappearing Buddha--Zen Buddhism in Japan
10. Zulu Zion--Christianity of South Africa
11. A Question of Balance--Chinese Religion
12. West Meets East--New Religions of California
13. Loose Ends--An Epilogue

NOTES:

*Produced in conjunction with the British Broadcasting Corporation and Time-Life Films.

ACADEMIC AREA: Arts and Humanities

DISCIPLINE: Visual and Performing Arts

TITLE: The Developing Image

PRODUCER: Northern Virginia Community College

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact Children's Television International

COURSE DESCRIPTION:

Identifies and explores aesthetic themes found throughout the history of American photography. Wide range of photographic matter, past and present, explored along with the role photography played in recording intimate family sagas and historical events of national and international significance.

LESSON TITLES:

1. The Camera Image: More Than a Record
2. Solutions to Images
3. The Family Album
4. Beyond Our Vision
5. Witness to the American Experience
6. Illusions of Reality
7. Expressing a 20th Century Vision
8. Light from Within

MATHEMATICS AND NATURAL SCIENCES

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Astronomy

TITLE: Project Universe: An Introduction to Astronomy

PRODUCER: Coast Community College District*

FORMAT: Video

NUMBER OF PROGRAMS: 39 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Comprehensive introduction to astronomy presenting origin, characteristics, and evolution of the solar system, stars, galaxies, and the universe as a whole. Historic milestones of past astronomers are defined and interpreted for the student. An in-depth perspective on the future of astronomical research and the latest speculative theories are presented.

LESSON TITLES:

1. The Astronomer's Universe
2. Perspectives
3. Electromagnetic Radiation
4. Earth: The Water Planet
5. Lunar Motions and Appearance
6. Eclipses and Lunar Dimensions
7. Lunar Geology
8. Spectroscopy
9. Mercury
10. Venus
11. Mars--Changing Visions
12. Mars in the Seventies
13. Jupiter
14. Saturn
15. Uranus, Neptune, Pluto
16. Meteorites and Minor Planets
17. Comets and Meteors
18. The Solar Image
19. The Solar Interior
20. Evolution of the Solar System
21. Surveying the Stars
22. Stellar Brightness
23. The Message of Starlight
24. Binary Stars
25. The Milky Way--Discovered
26. The Milky Way--Structure
27. Stars--The Nuclear Furnace
28. The Birth of Stars
29. White Dwarfs and Red Giants
30. Supernovas and Pulsars
31. Black Holes
32. Extraterrestrial Communication
33. Galaxies
34. The Expanding Universe
35. Quasars
36. Origin of the Universe
37. Relativity
38. Cosmic Implications of Relativity
39. Destiny of the Universe

NOTES:

*Produced in conjunction with the Southern California Consortium for Community College Television

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Biology, Psychology

TITLE: Brain, Mind, and Behavior

PRODUCER: WNET-TV

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1984 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact Films Incorporated

COURSE DESCRIPTION:

Introductory-level course designed to give beginning students a comprehensive understanding of the human brain, its functions, its common pathologies, and its many mysteries. The subject matter--the brain and its influence on our thoughts and behavior--will engage students by addressing topics such as vision, movement, sleep, stress and anxiety, addiction, language, aging and memory, sex differences in the brain, mental disease, and the action of drugs on the brain's chemistry. The course will personalize the central scientific evidence with frequent reference to human stories. Students will meet people whose brains malfunction or work exceptionally well, who suffer from memory loss, Parkinson's disease, or depression, or whose lives have been dramatically improved by advances in the science. Interspersed with these vignettes are interviews with leading scientists and animated graphics.

LESSON TITLES:

1. The Enlightened Machine (Introduction)
2. Vision and Movement
3. The Animal Brain (Rhythms and Drives)
4. All in the Mind (Feelings and Emotions)
5. Learning and Memory
6. The Thinking Brain
7. Schizophrenia
8. The Brain Age

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Biology

TITLE: Introducing Biology

PRODUCER: Coast Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 36 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, academic and administrative support package

RIGHTS: Contact producer

COURSE DESCRIPTION:

Basic, non-laboratory course to fulfill general education requirements for non-majors. Explains the study of life and humanizes that study for the individual viewer.

LESSON TITLES:

1. The Earth, Life, and Energy
2. Atoms and Molecules
3. The Cell
4. Diffusion, Osmosis, and Dialysis
5. Photosynthesis and Respiration
6. Tissues
7. Roots, Stems, and Leaves
8. Plant Wonders
9. Nutrition, Diet, and Vitamins
10. Ingestion, Digestion, and Indigestion
11. The Integument
12. Locomotion and Skeletons
13. Muscles and Exercise
14. Respiration
15. The Heart
16. Blood Vessels, Blood Pressure, and Blood
17. Immunity, Disease, and Body Temperature
18. Body Fluid, Kidneys, and Homeostasis
19. Introduction to the Nervous System
20. The Brain
21. Touch, Smell, and Equilibrium
22. The Eye and the Ear
23. The Endocrine Glands
24. Autonomic Nerve System and Biofeedback
25. Ethology
26. Sexual Reproduction and Meiosis
27. Pollen, Flowers, and Seeds
28. Sexual Reproduction
29. Female Reproduction and Menstruation
30. Development and Aging
31. Basic Heredity
32. Genetic Code and Protein Synthesis
33. Diversity of Life and Classification
34. The Darwin-Wallace Theory of Natural Selection
35. Basic Ecology
36. Human Ecology

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Earth Science/Geology

TITLE: The Earth Explored

PRODUCER: BBC-Open University*

FORMAT: Video

NUMBER OF PROGRAMS: 14 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1984 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact PBS Adult Learning Service

COURSE DESCRIPTION:

Provides students with an international field trip in physical geology. From the top of the Alps to the bottom of Death Valley, the series examines the forces that have shaped, and continue to shape, our earth. Begins with historical look through the eyes of one of the pioneers of modern geologic thought, Sir James Hutton, and concludes with an examination of specific natural resources.

LESSON TITLES:

1. The Life and Work of James Hutton
2. Form and Function of Fossils
3. Rocks and Minerals
4. Volcanoes
5. Sandstone Secrets
6. The Water
7. Geothermal Energy
8. Glaciers
9. Deserts
10. Reefs: Past and Present
11. The Earth/Plate Tectonics
12. The Alps, Part 1
13. The Alps, Part 2
14. From Swamps to Coal

NOTES:

*Produced in conjunction with KRMA-TV Denver

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Earth Science/Geology

TITLE: Earth, Sea and Sky

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Administrative guide, test bank, faculty guide, promotional materials, consultant service, study guide, textbook, laboratory manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduction to the earth sciences. Major concentration is on geology. Stressing the scientific method, course introduces students to tools of scientific investigation and helps improve powers of observation and interpretation. Surveys scientific findings about earth and its solar system. Can serve as a laboratory science or non-laboratory introductory course.

LESSON TITLES:

1. Introduction to Earth Science
2. The Solar System
3. Interstellar Space
4. Atmospheric Phenomena
5. Predicting the Weather
6. Modern and Ancient Climates
7. Causes of Climate
8. Oceanography
9. Ocean Life
10. Matter and Minerals
11. Volcanoes
12. Wathering and Erosion
13. Deposition and Sedimentation
14. Metamorphism
15. Glaciers
16. Deserts
17. Ground Water
18. Earthquakes
19. Structural Geology
20. Earth History
21. Plate Tectonics
22. Remote Sensing
23. Economic Geology
24. Energy Resources
25. Environmental Geology
26. National Parks I
27. National Parks II
28. Lunar Geology
29. Geology of the U.S.A.
30. Summary of Earth Science

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Earth Science/Marine Biology

TITLE: Oceanus: The Marine Environment

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty guide, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Explores the ocean's influence on the weather, its diversity of life forms, its contribution to the physical and historical development of humans, its impact on politics and economics, and its importance in literature and the graphic arts.

LESSON TITLES:

1. The Water Planet
2. Cosmic Origins
3. Historical Perspectives
4. The Waters of the Earth
5. Ocean's Edge
6. The Intertidal Zone
7. Continental Margins
8. Beyond Land's End
9. Plate Tectonics
10. Islands
11. Marine Meteorology
12. Ocean Currents
13. Wind, Waves, and Water Dynamics
14. The Ebb and Flow
15. Plankton: Floaters and Drifters
16. Nekton: Swimmers
17. Reptiles and Birds
18. Mammals: Seals and Otters
19. Mammals: Whales
20. Living Together
21. Light in the Sea
22. Sound in the Sea
23. Life Under Pressure
24. The Polar Seas
25. The Tropic Seas
26. Mineral Resources
27. Biological Resources
28. Marine Pollution
29. Hawaii: A Case Study
30. Epilogue

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Ecology/Earth Science/Geology

TITLE: The Living Environment

PRODUCER: Dallas County Community College District*

FORMAT: Video

NUMBER OF PROGRAMS: 24 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, test bank, administrative guide, faculty guide, promotional materials, consultant service

RIGHTS: Contact producer

COURSE DESCRIPTION:

Environmental studies course designed to provide students with broad understanding of physical, biological, and social aspects of the environment. Emphasizes importance of environmental concerns and the life-threatening problems existing in our physical and cultural environments. Environmental needs and problems such as the energy crisis and population control are discussed.

LESSON TITLES:

1. Environmental Perception
2. Environmental Imperatives
3. Antecedents of Contemporary Problems
4. Ecology Concepts I
5. Ecology Concepts II
6. Human Population Growth
7. Population Control
8. Food Resource
9. Energy Problems
10. Energy Alternatives
11. Conservation of Vital Resources
12. Economic Geology
13. Solid Waste
14. Wildlife Management
15. Forest and Man
16. Land Use in the City
17. Water Resources
18. Water Pollution
19. Air Pollution
20. Impact of Political Systems
21. Impact of Economic Systems
22. Myths of Technology
23. Individual Involvement
24. Solutions and Projections

NOTES:

*Produced in conjunction with Tarrant County Junior College District, Miami-Dade Community College District, and Daytona Beach Community College

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Artificial Intelligence

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 24 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Course manual, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Part I explains importance of basic ideas and discusses methodological issues. Part II describes the technology of expert systems with emphasis on both the popular if-then and the existing alternatives. Part III covers computer vision, with emphasis on today's binary vision practice and tomorrow's gray-level vision promise.

LESSON TITLES:

Part I
1. Geometric Analogy Problems I
2. Geometric Analogy Problems II
3. The General Problem Solver
4. Solving Calculus Problems I
5. Solving Calculus Problems II
6. Perceptions and Hill Climbing
7. Picking the Next Move
8. Using Evidence
9. Probing a New Domain
10. Exploiting Constraints
11. Working Out an Epistemology
12. Learning

Part II
13. Knowledge Engineering
14. Dentral
15. Diagnosis Using Mycin
16. Knowledge Acquisition Using Tieresias
17. Speech Understanding Using Hearsay II
18. Discovery and AM

Part III
19. Machine Vision
20. Binary Information Process I
21. Binary Information Processing II
22. The Reflectance Map
23. Shape from Shading
24. Shape Representation

ACADEMIC CATEGORY: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Calculus of a Single Variable (I)

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 37 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides, textbook, supplemental notes, lecture notes

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers material normally found in first two years of a modern sequence in calculus, differential equations, and linear algebra. Begins with elementary set theory and other aspects of the "new math" and continues with differential and integrated calculus, circular and transcendental functions, and infinite series.

LESSON TITLES:

Part I
1. Analytic Geometry
2. Functions
3. Inverse Functions
4. Derivatives and Limits
5. A More Rigorous Approach to Limits
6. Mathematical Induction

Part II
7. Derivatives of Some Simple Functions
8. Approximations and Infinitesimals
9. Composite Functions and the Chain Rule
10. Differentiation of Inverse Functions
11. Implicit Differentiation
12. Continuity
13. Curve Plotting
14. Maxima and Minima
15. Rolle's Theorem and its Consequences
16. Inverse Differentiation
17. The "Definite" Indefinite Integral

Part III
18. Circular Functions
19. Inverse Circular Functions

Part IV
20. The Definite Integral
21. Marriage of Differential and Integral Calculus
22. Three-Dimensional Area
23. One-Dimensional Area

Part V
24. Logarithms with Exponents
25. Inverse Logarithms
26. What a Difference a Sign Makes

27. Inverse Hyperbolic Functions

Part VI
28. Some Basic Recipes
29. Partial Fractions
30. Integration by Parts
31. Improper Integrals

Part VII
32. Many Versus Infinite
33. Positive Series
34. Absolute Convergence
35. Polynomial Approximations
36. Uniform Convergence
37. Uniform Convergence of Power Series

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Calculus of Several Variables (II)

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook, supplemental notes

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course is continuation of preceding listing, Calculus of a Single Variable.

LESSON TITLES:

Part I
1. The "Game" of Mathematics
2. "Arrow" Arithmetic
3. Three-Dimensicnal Vectors
4. The Dot Product
5. The Cross Product
6. Equations of Lines and Planes

Part II
7. Vector Functions of a Scalar Variable
8. Tangential and Normal Vectors
9. Polar Coordinates
10. Vectors in Polar Coordinates

Part III
11. n-Dimensional Vector Spaces
12. Calculus of Several Variables
13. Directional Derivatives
14. The Chain Rule
15. Integrals Involving Parameters
16. Exact Differentials

Part IV
17. Linearity Revisited
18. The "Game" of Matrices
19. Inverting a Matrix
20. Inverting More General Systems of Equations
21. Maxima and Minima in Several Variables

Part V
22. Double Multiple Sums
23. The Fundamental Theorem
24. Multiple Integration and the Jacobian
25. Introduction to Line Integrals
26. Green's Theorem

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Calculus of Complex Variables, Differential Equations, and Linear Algebra (III)

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides, textbook, supplemental notes

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course is continuation of preceding listing, Calculus of Several Variables.

LESSON TITLES:

Part I
1. The Complex Numbers
2. Functions of a Complex Number
3. Conformal Mappings
4. Sequences and Series
5. Integrating Complex Functions

Part II
6. The Concept of a General Solution
7. Linear Differential Equations
8. Solving the Linear Equations L(y)=0; Constant Coefficients
9. Undetermined Coefficients
10. Variations of Parameters
11. Power Series Solutions
12. Laplace Transforms

Part III
13. Vector Spaces
14. Spanning Vectors
15. Constructing Bases
16. Linear Transformations
17. Determinants
18. Eigenvectors
19. Dot Products
20. Orthogonal Functions

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Colloid and Surface Chemistry

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 55 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course covers interfacial phenomena/processes in the chemical, petroleum, and metallurgical industries; lyophobic colloids/paints, coatings, cosmetics, pharmaceuticals, food products; electrokinetic phenomena and lyophilic colloids.

LESSON TITLES:

Part I
1. Introduction to Colloid Chemistry and its Relation to Surface Chemistry and Electrochemistry
2. Surface Tension and Surface Energies
3. Measurement of Surface and Interfacial Tensions of Liquids (1)
4. Measurement of Surface and Interfacial Tensions of Liquids (2)
5. Adsorption, Analytical Aspect
6. Thermodynamics of Fluid Interfaces
7. Spreading--Surface Films of Insoluable Monolayers
8. Surface Tension and Surface Structure of Solids
9. Adsorption of Gases on Solids
10. Chemisorption--Adsorption from Solution
11. Adsorption from Solution Continued, Contact Angles
12. Energies and Entropy of Adsorption
13. Charged Interfaces--Electrochemistry of the Phase Boundary
14. Surface Potentials--Structure of the Electric Double Layer
15. A Few Special Aspects of Double Layers
16. Free Energy of Double Layers--Electrocapillarity

Part II
17. Introduction on Stability of Lyophobic Colloids
18. Interaction Between Two Double Layers

19. Interaction Between Spherical Double Layers--Schiller Layers and Other Experiments on Double Layer Interaction
20. Van der Waals Forces
21. Van der Waals Forces--Influence of a Medium--Retardation--Lifshitz Method--Experiments
22. Combinations of Attraction and Repulsion--Applications Colloid Stability
23. Colloid Stability--Lyotropic Effects--Repeptization
24. Foams and Soap Films (1)
25. Foams and Soap Films (2)
26. Emulsions--Suspensions in Non-Aqueous Media
27. Steric Stabilization--Sensitized Flocculation
28. Coarse Suspensions--Rheology
29. Sol Preparation, Dialysis and Ultrafiltration
30. Particle Size Determination--Optics
31. Kinetics of Flocculation

Part III

32. Introduction. The Four Electrokinetic Effects. The Zeta-Potential
33. Theory of Electrophoresis
34. Applications of Electrokinetics
35. Non-Equilibrium Thermodynamics Applied to Electro-osmosis and Streaming Potential
36. Schmid Membrane Model. Non-Equilibrium Thermodynamics of Electrophoresis and Sedimentation Potential
37. Introduction to Membrane Potentials
38. Membrane Potentials. Incomplete Selectivity; Bi-Ionic Potentials; Filtration Through Membrane
39. The Donnan Equilibrium
40. The Donnan Potential. The Suspension Effect

Part IV

41. Introduction. Solutions of Lyophilic Colloids. Examples of Macromolecules
42. Polymer Synthesis. The Importance of Polymers. Their Specific Role
43. Statistics of Polymer Coil Conformations. Viscosity of Polymer Solutions
44. Rubber Elasticity
45. Thermodynamics of Polymer Solutions. Osmotic Pressure
46. Molecular Weight Distributions. Determination of Average Molecular Weight by Osmotic Pressure, Chemical Analysis, Viscosity
47. Light Scattering
48. The Ultracentrifuge
49. Polyelectrolytes, Examples, Titration Curves, Electrophoresis
50. Polyelectrolytes. Viscosity Light Scattering, Osmotic Pressure, Sedimentation
51. Coacervation, Salting Out
52. Complexcoacervates Electrophoresis. Structure of Proteins and Nucleic Acids
53. Association Colloids. Micelle Formation. Phase Diagrams
54. Association Colloids. Micelle Size. Thermodynamics. Applications
55. Gels

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Computer-Aided Manufacturing

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 16 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides

RIGHTS: Contact producer

COURSE DESCRIPTION:

Two-part series describes the revolution in computer-aided manufacturing and its effects.

LESSON TITLES:

Part I: Current Applications and Long-Range Programs
1. Computer-Based Production Systems in the United States
2. Long-Term Trends and Potential Problems in Computer-Aided Manufacturing
3. Computer-Based Production Systems in West Germany
4. Automated Production Systems in Norway
5. Computer-Based Production Systems
6. Near-Term Implications and and Opportunities I
7. Near-Term Implications and and Opportunities II

Part II: Recent Advances in the Automation of Discrete Product Manufacturing
8. Advances in Systems Engineering Applied to Discrete Product Manufacturing
9. Languages for Automated Assembly and Productivity Technology
10. Geometric Modeling
11. Computer-Controlled Assembly
12. Design for Manufacturability
13. Techniques for Feeding and Orienting Small Parts
14. Computerized Manufacturing Systems
15. Production System Performance Evaluation Model
16. GEMS: A Generalized Manufacturing Simulator

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Computer Languages

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 39 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: None

RIGHTS: Contact producer

COURSE DESCRIPTION:

Focuses on issues that must be addressed in the design or implementation of any programming system, such as the means by which a variable is associated with its value, the logical power of a language, the efficiency and expressibility of a language, and the use of functions to process other languages. Videotapes in this series are unedited lectures and classroom discussion.

LESSON TITLES:

1. Introduction to Computer Science
2. Introduction to Machine
3. M Machine Language
4. The Need for Subroutines and Stacks
5. Subroutines and Stack Discipline
6. Assembly Language
7. Structure of Assemblers
8. Applicative Expressions (AEs)
9. Meaning of AEs
10. Use of the Normal Value Algorithm
11. Conditionals
12. Ramifications of Normal Values
13. Introduction to Environments
14. Problems of the G-Machine
15. The Stack Environment (S-Machine)
16. Recursion in G and S
17. Abstract Recursion
18. Logical Power of Computing Schemes
19. Recursive Function Theory
20. Introduction to LISP
21. S-Expressions
22. Lists
23. Evaluators (1)
24. Evaluators (2)
25. Evaluators (3)
26. Evaluators (4)
27. FUNARG Problems (SAW)
28. Possible Cures for FUNARG Problems
29. Tree Environment (1)
30. Tree Environment (2)
31. Imperative LISP (1)
32. Imperative LISP (2)
33. Sequencing
34. Dynamic Allocation of Storage
35. Global Labels (1)
36. Global Labels (2)
37. Principles of Translation
38. AEs to Assembly Language (1)
39. AEs to Assembly Language (2)

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Corrosion Engineering

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Objectives are to provide an awareness of the types of metallic corrosion problems, to develop a basis in principle for understanding the origins of these problems, and to detail various approaches to corrosion control.

LESSON TITLES:

1. Introduction
2. Thermodynamics of Electrochemical Corrosion I: The Nerst Equation
3. Thermodynamics of Electrochemical Corrosion II: Stability (Pourbaix) Diagrams
4. Thermodynamics of Electrochemical Corrosion III: Application of Stability Diagrams
5. Electrode Kinetics I: Exchange Current Density
6. Electrode Kinetics II: Activiation Polarization
7. Electrode Kinetics III: Anodic and Cathodic Activation Polarization
8. Corrosion Kinetics I: Corrosion Potential and Current Density
9. Corrosion Kinetics II: Concentration and Resistance Polarization
10. Measurement of the Corrosion Potential and Corrosion Current
11. Passivation
12. Localized Corrosion: Pitting and Crevice Corrosion
13. Embrittlement Phenomena I: Stress Corrosion Cracking (SCC)
14. Embrittlement Phenomena II: Corrosion Fatigue and Hydrogen Embrittlement
15. Corrosion Control I: Materials Selection--Stainless Steel
16. Corrosion Control II: Materials Selection--Fe, Cu, and Al Alloys
17. Corrosion Control III: Chemistry of the Environment
18. Corrosion Control IV: Cathodic and Anodic Protection--Coatings
19. Corrosion Control V: Design Considerations
20. Atmospheric Corrosion and Concluding Comments

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Decision Analysis

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Builds from consideration of fundamentals to advanced topics and detailed case studies. Early lectures focus on the basic multi-stage decision analysis model and its requisite axioms. Followed by detailed explanations of the quantification of uncertainties and probabilities and preferences as utilities.

LESSON TITLES:

1. An Overview of Decision Analysis
2. Probability for Decision Analysis I: Fundamentals
3. Probability for Decision Analysis II: Random Variables
4. The Multistage Model: A First Example
5. The Multistage Decision Model: Further Considerations
6. The Axioms of Rational Behavior
7. Introduction to Utility
8. Lottery and Information Prices, Risk Aversion
9. Sensitivity Analysis, Review
10. Assessing Uncertainty
11. Structuring Single Attribute Utility Functions
12. Assessing Single Attribute Utility Functions
13. Survey of Multiattribute Utility Theory
14. Utility Functions with Two Attributes
15. Utility Functions with More Than Two Attributes
16. Assessing Multiattribute Utility Functions
17. Airport Facility Development in Mexico City
18. Evaluation of Nuclear Power Sites in Washington State
19. Four Applications of Multiattribute Utility Theory
20. Selected Survey of Decision-Making Procedures for Groups

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: The Deming Videotapes: Quality, Productivity, and Competitive Position

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 14 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

W. Edwards Deming, internationally renowned management consultant, discusses his 14 points for top management--to improve productivity and quality.

LESSON TITLES:

1. A Call to Arms by William Conway, President, The Nashua Corporation
2. Why Productivity Increases as Quality Improves
3. The 14 Steps Management Must Take, I
4. The 14 Steps Management Must Take, II/ Obstacles to Success, I
5. Obstacles to Success, II
6. Uses of Control Charts/ Advantages of Achieving Statistical Control
7. Discovery and Correction of Faults of the System, I
8. Discovery and Correction of Faults of the System, II
9. New Principles of Training and Supervision, I
10. New Principles of Training and Supervision, II/ Quality and the Consumer
11. Inspection of Incoming Materials and Product, I
12. Inspection of Incoming Materials and Product, II
13. Quality and Productivity in Service Organizations
14. Operational Definitions, Conformance, and Performance

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Digital Electronics

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 23 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

RIGHTS: Contact producer

COURSE DESCRIPTION:

Comprehensive course in digital circuit analysis, design, debugging, and laboratory techniques. Designed for the training of digital engineers and technicians. Only the most elementary background in electrical circuits and basic algebra is required.

LESSON TITLES:

1. Logic Concepts
2. Electronic Logic
3. Boolean Algebra
4. Combinational Logic
5. Proper Laboratory Techniques
6. Binary Number Operations I
7. Binary Number Operations II
8. Flip-Flops
9. Counting, Timing, and Synchronizing Circuits
10. IC Data Sheet Interpretation
11. Signal Conditioning for Digital Circuits
12. Counter Analysis and Design
13. Digital Applications I
14. Three-State Bus Concepts
15. Sequential Circuits I
16. Sequential Circuits II
17. Digital Circuit Fault Analysis
18. Circuit Construction and Manufacturing Techniques
19. Analog-Digital Conversion I
20. Analog-Digital Conversion II
21. Electronic Memories
22. Digital Applications II
23. Computers and Microprocessors

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Digital Signal Processing

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 22 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Begins with definition of discrete-time signals and systems. Topics covered include difference equations, discrete-time Fourier transforms, the z-transform, digital filter design and implementation, and the fast Fourier transform.

LESSON TITLES:

1. Introduction
2. Discrete-Time Signals and Systems (1)
3. Discrete-Time Signals and Systems (2)
4. The Discrete-Time Fourier Transform
5. Sampling, Aliasing, and Frequency Response
6. Demonstrations of Sampling, Aliasing, and Frequency Response
7. The Z-Transform
8. The Inverse Z-Transform
9. Z-Transform Properties
10. The Discrete Fourier Series
11. The Discrete Fourier Transform
12. Circular Convolution Representation of Linear Digital Networks
14. Network Structures for Infinite Impulse Response (IIR) Digital Filters
15. Network Structures for Finite Impulse Response (FIR) Digital Filters and Parameter-Quantitization Effects in Digital Filter Structures
16. Design of IIR Digital Filters (1)
17. Design of IIR Digital Filters (2)
18. Examples of IIR Filter Design
19. Design of FIR Digital Filters
20. Computation of the Discrete Fourier Transform (1)
21. Computation of the Discrete Fourier Transform (2)
22. Computation of the Discrete Fourier Transform (3)

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Distributed Processor Communication Architecture

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Overview of entire field of computer interconnection strategies. Covers system models, packet switching techniques, circuit switching techniques, bus structures, and a wide variety of transmission issues.

LESSON TITLES:

1. Introduction
2. Systems, Part 1
3. Systems, Part 2
4. Packet Switching, Part 1
5. Packet Switching, Part 2
6. Packet Switching, Part 3
7. Circuit Switching, Part 1
8. Circuit Switching, Part 2
9. Bus Structures, Part 1
10. Bus Structures, Part 2
11. Transmission Issues
12. Examples and Conclusion

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Economics

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 22 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introductory course requiring no previous study of economics. However, a student with a working knowledge of differential calculus will get the most out of this approach to the material.

LESSON TITLES:

Part I: Microeconomics
1. Introduction to the Economic Problem
2. Theory of Demand
3. Consumer Theory and Demand
4. Market Supply and Demand (1)
5. Market Supply and Demand (2)
6. Production, Cost, and Theory of the Firm (1)
7. Production, Cost, and Theory of the Firm (2)
8. Introduction to Market Structure: Pure Competition
9. Monopoly
10. Topics in Microeconomics (1)
11. Topics in Microeconomics (2)
12. Group Discussion on Microeconomics

Part II: Macroeconomics
13. Introduction: Gross National Product and Income
14. Aggregate Demand (1)
15. Aggregate Demand (2)
16. Interest Rates and Investment
17. Money and Commercial Banking
18. Federal Reserve System
19. Demand and Supply of Money
20. Integration of Monetary and Fiscal Policy
21. Excess Demand and Inflation
22. Group Discussion on Macroeconomics

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Electrochemistry

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 22 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides

RIGHTS: Contact producer

COURSE DESCRIPTION:

Beginning lectures offer overview and background on the subject; later lectures describe advanced techniques for specific industrial applications. Lecturer, J.Th.G. Overbeek, is recognized as a leading authority on the chemical sciences.

LESSON TITLES:

Part I: Introduction

1. History of Electrochemistry/ Physical Quantities/ Electric and Magnetic Equations/ Solving Numerical Problems
2. Dielectric Properties of Matter/ Dissolution of Electrolytes/ Solvation of Ions
3. Faraday's Law of Electrochemical Equivalence/ Conductivity/ Diffusion
4. Transference Numbers--Hittorf Method/ Transference Numbers--Moving Boundary Method in Solutions of One Binary Number/ Transference Numbers--Moving Boundary with Mixtures--Complexes--"True Transference Numbers"

Part II: Thermodynamics of Electrolytic Solutions

5. The Galvanic Cell/ Influence of Temperature and Pressure on the e.m.f. of the Galvanic Cell/ Thermodynamics of Solutions/ Activity Coefficients and Osmotic Coefficients in Electrolyte Solutions
6. Theory of Debye and Huckel--Effect of the Ionic Atmospheres on Activities/ Energy, Free Energy of Ionic Atmospheres--Osmotic Coefficient--Activity Coefficient/ Application of Debye and Huckel Theory to Osmotic Coefficients and to the Heat of Dilution/ Application of Debye and Huckel Theory to Activity Coefficients--Solubility of Sparingly Soluble Salts--Dissociation Constants of Acids--Kinetics of Reaction

Part III: Thermodynamics of Galvanic Cells

7. Cells With or Without Transference/ Galvanic Cells in a Gravitational or Centrifugal Field
8. Single Phase Boundary Potentials/ Electrochemical Potentials/ Half-Cells, E Not Accessible/ Standard Electrode Potentials/ Thermodynamic and Other Single Ion Properties
9. The Electric Double Layer-- Electrocapillary Curve/ Gouy-Chapman Theory/ Stern Correction
10. Liquid Junction Potentials/ The pH and its Measurement/ Buffer Solutions/ Non-Aqueous Solutions
11. Glass Electrodes/ Ion Exchange--Membrane Potential
12. Potentiometric Titrations/ Hydrolysis/ Acids and Bases
13. Dibasic Acids/ Amino Acids/ Proteins/ Polyelectrolytes

Part IV: Transport Phenomena in Solutions

14. Transport Phenomena in Solution, I--Conductance-- Transference Numbers/ Electorphoresis-- Electrokinetic Phenomena
15. Transport Phenomena in Solution, II--Diffusion-- Viscosity/ Time of Relaxation/ Non-Aqueous Solvents--Ion Pair Formation--Walden's Rule/ Applications (Especially Titrations) of Conductance

Part V: Electrokinetics

16. Electrodes at Non-Zero Current Densities/ Polarization/ Different Types of Overpotential/ Methods of Measurement
17. Diffusion Overpotential-- Polarography
18. Activation Overpotential
19. Reaction Overpotential-- Crystallization Overpotential
20. Mixed Potentials-- Passivity--Corrosion I
21. Corrosion II
22. Primary Batteries-- Secondary Batteries (storage cells, accumulators)--Fuel Cells

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Elements of Metallurgy

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 15 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Lecture notes, reading modules, metals handbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Begins with fundamentals of physics and chemistry and proceeds immediately to extractive metallurgy--how ore is converted to refined metal; then covers physical metallurgy--the structure and properties of metals, how related, and how these properties can be modified; concludes with process metallurgy, including metal forming and metal testing.

LESSON TITLES:

1. Atoms and Molecules
2. The Elements of Physics
3. The Elements of Chemistry
4. Chemical Equilibrium, Heat and Temperature
5. Oxidation and Reduction
6. Smelting and Refractories
7. Thermal Metal Refining
8. Electricity, Electrochemistry, and Electrolytic Processes
9. Solidification of Metals
10. Solid Solutions
11. Heat Treatment of Steel
12. Precipitation Hardening
13. Diffusion and Surface Treatments
14. Methods of Forming Metals
15. Mechanical Testing of Metals

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Engineering Economy

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 11 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Provides students with the concepts and methodology to evaluate the impact of interest rates, income taxes, and timing of cash flows on the economic attractiveness of investment proposals.

LESSON TITLES:

1. Introduction to Engineering Economy
2. Uniform Annual Cash Flow Method
3. Breakeven Analysis
4. Present Worth Method
5. Rate of Return Method
6. Benefit/Cost Method
7. Cost-Effectiveness Method
8. Effects of Income Taxes
9. Replacement Studies
10. Sources of Funds
11. Inflation Effects

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Finite Element Methods in Engineering Mechanics

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Course guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course covers new concepts in design, increased use of new materials, complexity of static and dynamic structural problems. Prerequisite: undergraduate degree in engineering or science.

LESSON TITLES:

1. Basic Concepts of Engineering Analysis
2. Analysis of Continuous Systems; Differential and Variational Formulations
3. Formulation of the Displacement-Based Finite Element Method
4. Generalized Coordinate Finite Element Models
5. Implementation of Methods in Computer Programs
6. Formulation and Calculation of Isoparametric Models
7. Formulation of Structural Elements
8. Numerical Integrations
9. Solution of Finite Element Equilibrium Equations in Static Analysis
10. Solution of Finite Element Equilibrium Equations in Dynamic Analysis
11. Mode Superposition Analysis: Time History
12. Solution Methods for Calculation of Frequencies and Mode Shapes

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Industrial Noise Control

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers complete basics of noise control, from understanding how noise is generated, to correct procedures for noise surveys, to practical techniques for noise control and hearing conservation.

LESSON TITLES:

1. Introduction to Noise Control
2. Acoustical and Vibration Control
3. Enclosures and Barriers
4. Vibrational Control
5. Air Noise and Mufflers
6. System and Machine Design
7. Hearing Conservation
8. Noise Management

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Integrated Optics

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course focuses on advantages of integrated optic systems. Prerequisite: undergraduate-level courses in electromagnetic fields and semiconductor devices.

LESSON TITLES:

1. Introduction to Integrated Optics
2. Optical Waveguide Modes
3. Theory of Optical Waveguides
4. Waveguide Fabrication Techniques (1)
5. Waveguide Fabrication Techniques (2)
6. Scattering and Absorption Losses
7. Radiation Losses
8. Coupling Into and Out of Waveguides
9. Waveguide-to-Waveguide Couplers and Modulators
9. Electro-Optic Modulators
10. Acousto-Optic Modulators
11. Basic Principles of Light Emission in Semiconductors
12. Semiconductor Lasers
13. Integrated Heterostructure Lasers
14. Distributed Feedback Lasers
15. Modulation of Semiconductor Lasers
16. Integrated Detectors I
17. Integrated Detectors II
18. Applications of Integrated Optics
19. Trends in Integrated Optics

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Introduction to Experimentation

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 14 LENGTH OF PROGRAMS: 40 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Practical series of lectures and demonstration on designing, carrying out, and reporting experiments. Topics covered include characteristics of instruments, errors of measurement, statistical analysis of data, plotting functional relationships, correlation, and technical reporting. Mathemetical level of series is not high; some use of calculus.

LESSON TITLES:

1. Experimentation
2. Resolution of Instruments
3. Errors of Measurement
4. Combination of Errors
5. The Normal Distribution
6. Internal Error Estimate
7. Computing the Standard Deviation
8. The Chi-Squared Test
9. The Poisson Distribution
10. The Best Straight Line
11. Plotting Other Functions
12. Correlation
13. The Technical Report (1)
14. The Technical Report (2)

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Introduction to VLSI Design

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 17 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Course manual, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduction that guides participant having no previous experience in integrated circuit design from first principles to all techniques needed to bring the chip design to "first silicon." Course assumes a basic background in R-C electric circuits and digital system design, but does not require previous knowledge of device physics or fabrication.

LESSON TITLES:

1. Introduction and Overview
2. The MOS Transistor
3. The MOSFET and the Inverter
4. The MOSFET Inverter and Simple Gates
5. Pass Transistor Networks for Gating
6. MOS Memory
7. Logic Arrays
8. Finite State Machines
9. Structured Design Examples
10. Integrated Circuit Fabrication
11. MOS Processing
12. Cell Generation and Lithography
13. Mask Patterns and Their Constraints
14. Mask Layout
15. Circuit Performance
16. Circuit Performance; Resistance and Capacitance
17. Device Models and Scaling

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Management of Microprocessor Technology

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplid LEVEL: Upper

ANCILLARY MATERIALS: Lecture notes

RIGHTS: Contact producer

COURSE DESCRIPTION:

Designed to teach decision-making executives and managers the language and applications of new microprocessor technology. Basics of microprocessor operation, design and development of systems, economic impacts, new markets, future hardware and software trends.

LESSON TITLES:

1. Introduction
2. Microprocessor Architecture I
3. Microprocessor Architectur › II
4. Basic Software for Product Development
5. Real Time Systems
6. Strategic Impact of Technology
7. Microprocessor-Based Product Opportunities
8. Advanced Software
9. Product Development
10. Future Trends

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Management of Technological Innovation

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 6 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Course materials, visual aids

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers motivating innovation, understanding user needs, determining venture strategies, communicating in organizations, and interfacing technological innovation with the market. Series developed from symposium for members of MIT Industrial Liaison Program.

LESSON TITLES:

1. Motivating Scientists and Engineers
2. User Needs and Industrial Innovation
3. Technical Venture Strategies
4. Communication in Science and Technology
5. Corporate/R&D Interface Management
6. Innovation in Industrial Organizations

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Mechanics of Polymer Processing

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 32 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Lectures, by J.R.A. Pearson, associate editor of the Journal of Fluid Mechanics, analyze mechanical behavior of polymer melts.

LESSON TITLES:

Part I: Introduction
1. Materials, Basic Processes
2. Physical Properties of Polymers
3. Screw Extrusion of Pipe: Injection Molding
4. Film Blowing: Blow Molding; Thermoforming; Two-Roll Milling
5. Kinematics of Flow Processes
6. Mathematical Models for Flow Processes
7. Stability of Flow Processes
8. Control and Design of Flow Processes

Part II: Fundamentals of Polymer Melt Mechanics
9. General Rheological Properties
10. Continuum Approach; Stress and Deformation
11. Conservation Laws and Constitutive Relations
12. Experimental Investigations
13. Viscometric Flow
14. Irrotational Flows
15. Dynamic Viscosity
16. Unsteady Flows
17. Basic Solution: Confined Flow (1)
18. Basic Solution: Confined Flow (2)
19. The Lubrication Approximation
20. Thin Sheet Approximations

Part III: Application to Polymer Processing
21. Introduction
22. Temperature Effects in Confined Flows
23. Flow in Dies
24. Single Screw Extruder: Metering Zone
25. Single Screw Extruder: Melting Zone
26. Single Screw Extruder: Feed Zone; Scale-up
27. Fiber Spinning: General
28. Fiber Spinning: Stability
29. Film Blowing: Steady-State Symmetric
30. Film Blowing: Stability; Film Casting
31. Calendering
32. Injection Molding

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Microprocessor Interfacing

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduction to theory and practice of microprocessor interfacing. Covers topics such as grounding and shielding techniques, transmission lines, busing, interrupt signalling, serial and parallel I/O, protocols for the IEEE-488 bus, magnetic tape storage techniques, phaselocked loop design, disc storage techniques, and floppy disc controllers.

LESSON TITLES:

1. Grounding and Shielding, Part 1
2. Grounding and Shielding, Part 2
3. Busing, Part 1
4. Busing, Part 2
5. Serial Interfacing, Part 1
6. Serial Interfacing, Part 2
7. Parallel Interfacing, Part 1
8. Parallel Interfacing, Part 2
9. Magnetic Tape Interfacing, Part 1
10. Magnetic Tape Interfacing, Part 1
11. Magnetic Disc Interfacing, Part 1
12. Magnetic Disc Interfacing, Part 2

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Microprocessors

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, laboratory manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers crucial issues of microprocessor systems design for engineers, technical personnel, and scientists interested in applying microprocessors to their area of expertise. Designed to train participants in the design of microprocessor software and hardware for a variety of applications. No previous background in computers or computer programming assumed. A basic knowledge of digital electronics is required.

LESSON TITLES:

1. Introduction
2. Fundamental Computer Concepts I
3. Fundamental Computer Concepts II
4. Characteristics of the Intel 8080 Microprocessor
5. A Simple Programming Example
6. Algorithms, Flow Charts, Programming Planning
7. Debugging and Use of the MMD-1
8. Stack Architecture
9. Microprocessor CPU Hardware Concepts and Signals
10. Hardware Configuration of a Typical Microcomputer System
11. Microcomputer Bus Timing
12. A Microcomputer Executive Program
13. Arithmetic Routines
14. Interrupts
15. Real-Time Microcomputer Applications I: Computer Tone Generation
16. I/O Interfacing I
17. I/O Interfacing II
18. Real-Time Microcomputer Applications II: Character Generation
19. Real-Time Microcomputer Applications III: Computer-Controlled Sampling Scope
20. Comparative Evaluation of Microprocessors, Advanced Systems

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Modern Control Theory

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 57 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides, textbook, computer manual, card deck

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers analytic and algorithmic methods. Prerequisite: working knowledge of vectors and matrices and their operations, as well as an exposure to the notion of eigenvalues and eigenvectors.

LESSON TITLES:

Part I: System Analysis
1. Introduction to Optimal Control and Estimation Methods (1)
2. Introduction to Optimal Control and Estimation Methods (2)
3. The General Notion of the State of a Dynamical System
4. Linear Continuous Time Dynamical Systems
5. Dynamic Linearization of Continuous Time Systems
6. Discrete-Time Dynamical Systems
7. Linear Time Invariant Dynamical Systems
8. The Relation of Transfer Functions and State Variable Representations
9. From Transfer Functions to State Variable Representations
10. Controllability and Observability
11. Computer Routines for Linear System Analysis

Part II: Deterministic Optimal Control
12. General Discussion
13. The Minimum Principle of Pontryagin: Continuous Time Case
14. The Dynamic Programming Algorithm
15. The Minimum Principle: Discrete Time Case
16. The Steepest Descent Method
17. Numerical Example: Solution of a Minimum Fuel Problem in the Apollo Project
18. Newton's Method
19. Minimum Principle vs. Dynamic Programming

Part III: Deterministic Optimal Linear Feedback
20. Motivation for the Linear-Quadratic Problem
21. The Solution of the Linear-Quadratic Problem

22. Motivation for the Steady-State Linear-Quadratic Problem
23. The Steady-State Linear-Quadratic Problem: Continuous-Time Case
24. The Steady-State Linear-Quadratic Problem: Discrete Time Case
25. The Steady-State Linear-Quadratic Problem with Deterministic Disturbances
26. Control of Helicopter at Hover
27. Programs: Helicopter Example
28. The Steady-State Linear Regulator Problem for Constant Disturbances
29. Design of Proportional-Derivitive-Integral Controllers for Tracking Step Inputs
30. Asymptotic Behavior of Steady-State Linear-Quadratic Closed-Loop Systems
31. Optimal Control of a Macroeconomic Model of the U.S. Economy (1957-1962)
32. Air Traffic Control in the Near Terminal Area

Part IV: Stochastic Estimation
33. Introduction
34. Review of Probabalistic Concepts
35. Response of Linear Systems to White Noise Inputs: Discrete Time Case
36. Response of Linear Systems to White Noise Inputs: Continuous Time Case
37. The Bayesian Approach to Parameter Estimation
38. The Discrete-Time Kalman Filter
39. Effect of Changing Covariance Matrix of Measurement upon a Kalman Filter
40. The Continuous-Time Kalman-Bucy Filter
41. The Steady-State Kalman-Bucy Filter: Continuous-Time Case
42. The Steady-State Kalman Filter: Discrete-Time Case
43. Numerical Example: Estimation of Positions, Velocities, and Accelerations
44. Numerical Example: Sensor Tradeoffs
45. Suboptimal Nonlinear Filtering Algorithm: Discrete-Time
46. Numerical Example: Estimation of Position, Velocity, and Ballistic Parameter for a Vertical Re-entering Body
47. Computer Routines for Linear Stochastic Estimation

Part V: Stochastic Control
48. Introduction
49. The General Problem
50. The Discrete-Time Linear-Quadratic-Gaussian (LQG) Problem
51. The Continuous-Time Linear-Quadratic-Gaussian (LQG) Problem
52. Numerical Example of LQC Design for a Third-Order Continuous Time System
53. Systematic Procedures and Numerical Example
54. Control of a Nonlinear System about Desired Time Varying Trajectory
55. The Steady State LQC Problem: Continuous-Time Case
56. Steady State Theory Computer Programs: Helicopter Example
57. Control of a Nonlinear System about Desired Constant Equilibrium

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Nonlinear Vibrations

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS 23 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Describes various methods--exact and approximate, numerical and graphical--for dealing with vibrations in systems described by nonlinear differential equations. Series uses simple math while keeping the physical interpretation of the mathematical model in sight with every step.

LESSON TITLES:

1. Introduction
2. The Phase-Plane Method
3. Application of the Phase-Plane Method
4. Pendulum in a Rotating Plane
5. The Van der Pol Equation
6. Relaxation Oscillations
7. Periodic Reversal of Rotation of a D.C. Motor
8. Forced Undamped Vibrator with Nonlinear Spring
9. Piece-Wise Linear Systems
10. Forced Vibrator with Nonlinear Damping
11. Exact Solutions (1)
16. Exact Solutions (2)
17. The Sommerfeld Effect
18. Tuned Centrifugal Pendulum
19. Nonlinear Centrifugal Pendulum
20. Solution and Interpretation
21. Aircraft Jet Rotor with Ball Bearings and Clearances
22. Method of Krylov-Bogliubov
23. Physical Interpretation of the K & B Formulas
24. Method of Galerkin
25. Applications
26. Modified Martienssen Method Subharmonic Resonance
27. Volterra's Fishes

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Packet Switching

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 16 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Provides a comprehensive foundation in how packet switching works, how it compares to alternative techniques, and how to utilize packet switching.

LESSON TITLES:

1. Introduction to Packet Networks
2. Elements of Packet Data Networks
3. Analysis and Comparison of Switched Networks, Part 1
4. Analysis and Comparison of Switched Networks, Part 2
5. Packet Switching Operation and Protocols, Part 1
6. Packet Switching Operation and Protocols, Part 2
7. Packet Switching Operation and Protocols, Part 3
8. Packet Switching Operation and Protocols, Part 4
9. Networking Topologies and Routing, Part 1
10. Networking Topologies and Routing, Part 2
11. Satellite Applications and Demand Assignment for Data, Part 1
12. Satellite Applications and Demand Assignment for Data, Part 2
13. Common Carrier Services, Part 1
14. Common Carrier Services, Part 2
15. Integrated Services Digital Networks, Part 1
16. Integrated Services Digital Networks, Part 2

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Probability and Random Processes (I)

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 49 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook, lecture notes, pretest

RIGHTS: Contact producer

COURSE DESCRIPTION:

Probability section of course is a post-calculus approach. Random processes covered in Probability and Random Processes (II).

LESSON TITLES:

Part I: Elementary Probability Theory
1. Introduction to Probability
2. Formulation of Mathematical Models (1)
3. Formulation of Mathematical Models (2)
4. Elementary Set Theory
5. Theorem Proving
6. Probabilistic Models
7. Proof by Induction
8. Joint Probability
9. Conditional Probability (1)
10. Conditional Probability (2)
11. Conditional Probability: A Digital Communications Example
12. Statistical Independence
13. Product Spaces and Statistically Independent Experiments

Part II: Random Variables
14. Random Variables (1)
15. Random Variables (2)
16. Canonical Random Variables
17. Mixed Random Variables
18. Conditioning
19. Multiple Random Variables: Discrete
20. Continuous Random Variables
21. Impulsive Densities
22. Statistically-Independent Random Variables
23. Conditioning by Sets
24. Point Conditioning
25. A Digital Communication Application
26. Functions of a Random Variable
27. Functions of Vector Random Variables (1)
28. Reliability Applications
29. Functions of Vector Random Variables (2)

Part III: Statistical Averages
30. Statistical Averages: Expectation of a Random Variable

31. Expectations of Functions of a Random Variable
32. Moments of a Random Variable
33. The Chesbyshev Inequality
34. Estimation of Random Variables
35. Conditional Expectation
36. Minimum Mean-Square Error Estimation
37. Joint Moments: Correlation
38. Linear Estimation
39. Characteristic Functions
40. Joint Characteristic Functions

Part IV: Limit Theorems and Statistics

41. Sample Means and the Weak Law of Large Numbers
42. Relative Frequency
43. The Gaussian Approximation
44. Central Limit Theorem
45. Introduction to Statistical Inference
46. Estimation of the Moments of a Random Variable
47. Estimation of the Parameter of a Probability Density
48. Performance Bounds: The Cramer-Rao Inequality
49. Estimation of the Probability Density of a Random Variable

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Probability and Random Processes (II)

PRODUCER: MIT

FORMAT: Video (black and white)

NUMBER OF PROGRAMS: 48 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guides, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Random processes section is follow-on to probability and a prerequisite to study in such areas as advanced communications and queuing theory. Included are discussions of three completely characterized processes--the Poisson, Markov, and Gaussian processes.

LESSON TITLES:

Part I: Introduction to Random Processes
1. Introduction to Random Processes
2. Random Processes: Basic Concepts and Definitions
3. Fixed-Form Random Processes
4. Binary Transmission Wave
5. Random Telegraph Wave
6. Second-Moment Characterizations
7. The Role of the Covariance Function in Estimation

Part II: Linear Systems
8. System Descriptions
9. Linear System Descriptions
10. Measurement of Impulse Response
11. Convolution Integral
12. System Classification
13. Complex Exponential Inputs: Frequency Domain Analysis
14. Periodic Inputs and Fourier Series
15. Fourier Series Demonstration
16. Fourier Transforms
17. System Functions
18. Fourier Transform Properties
19. Sampling Theorem

Part III: Second Moment Theory
20. Linear Systems with Random Process Inputs
21. Time Averages
22. Frequency Domain Analysis of Stationary Random Processes
23. White Noise
24. Two Applications of White Noise
25. Matched Filters
26. Optimum Fixed-Form Linear Filters
27. Optimum Linear Filters

Part IV: Poisson Processes
28. Introduction to Poisson Processes
29. Poisson Counting Processes
30. Arrival Times
31. Filtered Poisson Process
32. Limiting Behavior of Filtered Poisson Processes

Part V: Markov Processes
33. Introduction to Markov Processes
34. Markov Process Equations
35. Finite State Processes
36. Pure Birth Process
37. Linear Birth Process
38. Equilibrium Distributions: Infinite-State Processes

Part VI: Gaussian Processes
39. Introduction to Gaussian Processes
40. Gaussian Random Vectors
41. Gaussian Random Processes
42. Gaussian Processes and Linear Systems
43. Gaussian Processes and Nonlinear Systems
44. Linear Optimality and General Optimality
45. Summary of Gaussian Processes

Part VII: Measurement of Process Characteristics
46. Measurement of Random Process Characteristics
47. Measurement of Mean-Square Value of a Random Process
48. Measurement of Power Density

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Project Managment

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 6 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Lecture notes, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduction to management of consumer contract programs, computer contract programs, computer programming, R&D projects, facility and relocation projects, and similar projects.

LESSON TITLES:

1. Planning, Part 1
2. Planning, Part 2
3. Implementation
4. Control
5. Completion
6. Definition

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Quality Planning

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introductory course emphasizing the philosophy of quality control--what quality is, its economics and organization, and the development of quality consciousness.

LESSON TITLES:

1. What is Quality?
2. Economics of Quality
3. Organization
4. Designing Quality into a Product
5. Interfacing Quality and Reliability
6. Developing Quality Mindedness
7. Improving the Quality Image by Customer Relations
8. Quality Data Collection and Analysis
9. Diagnostic Techniques to Identify the Causes of Poor Quality
10. Selling Quality to Management

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Reliability Engineering

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 18 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Presents concepts and procedures to predict and improve the failure time of mechanical or electrical/electronic devices. Course can be used either as an introduction to the fundamentals or as a review of principal topics.

LESSON TITLES:

1. Introduction
2. Wearout Failure
3. Wearout Failure: Examples
4. Chance Failure
5. Chance Failure: Examples
6. Weibull Failure Model
7. Weibull Probability Paper: Examples
8. Qualification Test Programs
9. Qualification Test: Examples
10. Comparison Test Programs
11. Comparison Test: Examples
12. Nonparametric Tests: Examples
13. Lot Acceptance Sampling
14. Mil-STD-781C: Examples
15. Series, Parallel and Standby Systems
16. Series, Parallel and Standby Systems: Examples
17. Designing Reliability into a Product
18. Reliability Apportionment and Growth

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Systems Engineering and Systems Management

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Provides the concepts, methodology, and procedure to engineer and manage a large system from inception through system tests and evaluation. Gives engineers and managers an overview of the interrelationships among the various factors affecting systems engineering and the management of modern complex systems. Prerequisite: engineering degree in any of the engineering disciplines.

LESSON TITLES:

1. Scope of the Systems Engineering Problem
2. Performance
3. The System Error Budget
4. System Reliability, Maintainability and Availability
5. System Redundancy and Failure Detection Requirements
6. Simulation and Modeling Techniques
7. Management Control of System Schedule and Cost
8. System Testing Techniques
9. Introduction to Systems Management Techniques
10. Systems Management Strategies

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Technology, Innovation, and Industrial Development

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 16 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Symposium on policies and programs for technological innovation in U.S. industry. Presentations by leaders from government, industry, labor, and scientific community.

LESSON TITLES:

1. The Importance of Technology and Innovation
2. A Dynamic View of the Economy
3. Innovative Dynamism and International Trade
4. R&D and Innovation
5. Regulation and Innovation
6. Effects of Change on Productivity and Labor in Industry
7. Venturing--Old and New Firms
8. Policies and Programs of Other Governments
9. Possible Programs and Policies of the U.S.
10. A Dynamic View of the Firm
11. Dynamics of Change in the Automobile Industry
12. Dynamics of Change in the Textile Industry
13. Dynamics of Change in the Electronics Industry
14. Dynamics of Change in the Industrial Gas Industry
15. Dynamics of an Economy
16. Views of the Council on Economic Development

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Telecommunications and the Computer

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook, reference papers

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduction to such topics as terminal interfaces, multiplexing, switching techniques, data base distribution systems, and management of computer networks. Designed for any manager who has responsibility for planning or implementing an interactive system using telecommunications to connect remote terminals to a central computer or to connect one computer to another.

LESSON TITLES:

1. Introduction to Data Communication
2. Signalling and Modulation
3. Multiplexing
4. Terminal Equipment and Interfaces
5. Link Control Procedures
6. Error Control
7. Switching
8. Network Architecture
9. Computer Networks
10. Data Base Distribution
11. Security in Data Communications
12. Management of Data Communications

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Thermostatics and Thermodynamics

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Lectures develop probability theory and entropy from an information-theoretic basis. Results are applied to a variety of problems to build up the concepts of statistical inference needed to establish statistical mechanics and thermodynamics.

LESSON TITLES:

1. Entropy in Thermodynamics and Communication
2. Logical Basis for Probability
3. A System of Inductive Logic
4. Applying Bayes Equation
5. Hypothesis Testing and Sequential Testing
6. Hypothesis Testing
7. Entropy
8. The Thermodynamics of a Mythical Economy
9. Statistical Thermodynamics
10. Classical Thermodynamics

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Engineering/Mathematics

TITLE: Tribology

PRODUCER: MIT

FORMAT: Video

NUMBER OF PROGRAMS: 20 LENGTH OF PROGRAMS: 50 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Course manuals, textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers topics of friction, lubrication, and electrical contacts. Provides basic understanding to tribology--the way it may be used to solve engineering problems, and recent developments in many of the topics. Prerequisites: equivalent of college-level courses in math, materials, and applied mechanics.

LESSON TITLES:

Part I: Friction, Wear, and Lubrication
1. Tribology
2. Wear
3. Adhesive Wear
4. Adhesive Particle Size
5. Abrasive Wear
6. Corrosive Wear
7. Surface Fatigue Wear
8. Friction
9. Stick-Slip
10. Lubrication (1)
11. Lubrication (2)
12. Troubleshooting

Part II: Advances in Friction, Wear, and Lubrication
13. Introduction
14. Adhesive Wear
15. Abrasive Wear and Erosion
16. Surface Energy Effects
17. Sliding Electric Contacts
18. Friction
19. Lubrication--
The Automobile
20. Experimental Techniques

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Mathematics/Statistics

TITLE: Introduction to Mathematics

PRODUCER: Maryland Center for Public Broadcasting

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introduces student to algebra, trigonometry, and finite mathematics. Involves linear programming, straight lines, quadratic functions, systems of linear equations, algebra review, and matrices. Also covers mathematics of finance, exponential and logarithmic functions, and trigonometry.

LESSON TITLES:

1. Introduction to the Course
2. Linear Equations
3. Linear Inequalities
4. Linear Programming I
5. Linear Programming II
6. The Slope of a Straight Line
7. Quadratic Functions I
8. Quadratic Functions II
9. Systems of Linear Equations I
10. Systems of Linear Equations II
11. Matrices
12. The Inverse of a Matrix
13. Stochastic Matrices
14. Regular Stochastic Matrices
15. Absorbing Stochastic Matrices
16. Non-Linear Systems
17. Introduction to Difference Equations I
18. Introduction to Difference Equations II
19. Graphing Difference Equations
20. Mathematics of Personal Finance
21. Modeling with Difference Functions
22. Exponents
23. The Exponential Functions
24. Applications of the Exponential Function
25. Logarithmic Functions
26. Curve Sketching
27. Trigonometry
28. Trigonometric Functions
29. Applications of Trigonometry
30. Summary of the Course

ACADEMIC AREA: Mathematics and Natural Sciences

DISCIPLINE: Physics/Cosmology

TITLE: Understanding Space and Time

PRODUCER: British Broadcasting Corporation*

FORMAT: Video

NUMBER OF PROGRAMS 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide, faculty manual

RIGHTS: Contact PBS Adult Learning Service

COURSE DESCRIPTION:

Charts the development of our present understanding of the physical universe from the pioneering work of Galileo and Newton to the revolutionary contributions of Einstein and contemporary astrophysicists. Emphasizes importance of the theory of relativity as it relates to recent astronomical discoveries.

LESSON TITLES:

1. Ground Control to Mr. Galileo
2. As Surely As Columbus Saw America
3. Pushed to the Limit
4. Conflict Brought to Light
5. Marking Time
6. $E = mc^2$
7. An Isolated Fact
8. Royal Road
9. At The Frontier
10. Shades of Black
11. Measuring Shadows: The Universe Today
12. A Note of Uncertainity: The Universe Tomorrow
13. Vanished Brilliance: The Universe Yesterday

NOTES:

*Produced in conjunction with the University of California/ National Media Program

SOCIAL SCIENCES AND HISTORY

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Economics (Macro)

TITLE: The Money Puzzle: The World of Macroeconomics

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, study guide, instructor's manual, general viewer's guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Introductory course in macroeconomic theory that uses a unique dramatic format as a means of relating economic principles to everyday situations. Students increase their awareness of economics as it applies to their lives on a daily basis and gain an understanding of how to apply economic principles to their decision-making process.

LESSON TITLES:

I. Putting the Puzzle Together
1. The Pieces of the Puzzle
2. The Choice is Yours

II. How Our American Economy Works
3. The Invisible Hand
4. You Can't Always Get What You Want

III. Government: How It Spends
5. The Free Rider
6. Blowing the Whistle

IV. Government: How It Taxes
7. Familiar Fallacies
8. Loopholes

V. Business Organizations and Fluctuations
9. Karen's Magic Flute
10. The Economic Roller Coaster

VI. The Circular Flow and National Income Accounting
11. Go With the Flow
12. Measuring My Success

VII. Analyzing the Macroeconomy
13. Getting and Spending
14. Withdrawal Symptoms

VIII. Income and Employment Determination
15. Income, Go Forth and Multiply
16. Balancing Act

IX. Government Fiscal Policy
17. Thomas and the Fiscal Fighter
18. The Inspectors

X. Inflation
19. The Shrinking Dollar
20. Fast Food Economics

XI. Money and Banking
21. All That Glitters is Gold
22. A Run for Your Money

XII. The Dilemma and Policies of Stabilization
23. Karen Goes Political
24. All of the People, All of the Time

XIII. Growth and Development
25. Slippin' Away
26. A Steep and Thorny Path

XIV. International Trade
27. Don't Let Them Take My Job Away
28. The Man Who Needed Nobody

XV. International Finances
29. The Tightrope Walkers
30. The Investors

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: The Affective Dimension of Reading

PRODUCER: Indiana University, Bloomington

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower, upper

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course illustrates materials and resources that will aid children in reading. Examines factors that influence children's reading and discusses tests that can be used to assess a child's progress in reading.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Audio-Visual Skills

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: varies

PRODUCTION DATE: 1983 LEVEL: Lower

ANCILLARY MATERIALS: None

RIGHTS: Contact producer

COURSE DESCRIPTION:

Demonstrates use of specific common audio-visual equipment.

LESSON TITLES:

1. Eiki TR-0 (16mm sound projector)
2. Eiki SL-0 (16mm sound projector)
3. Sharp AV 500 (audio cassette recorder)
4. Kodak Ektagraphic 210 (sound/ slide projector/viewer)
5. Singer Instaload (sound/ filmstrip projector/viewer)
6. Audiotronics 710 (stereo recorder player)
7. Sony SLO-320 (Beta video recorder)
8. Sony VO-2610 (U-matic video recorder)
9. Sony 19" Trinitron (color television receiver)
10. Sony AVC-3260 (black and white video camera)

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Classroom Management

PRODUCER: Indiana University, Bloomington

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983, 1984 LEVEL: Upper

ANCILLARY MATERIALS: Study guides

RIGHTS: Contact producer

COURSE DESCRIPTION:

Designed for regular and special education teachers, offers ssistance in managing classroom problems. Using simulations or actual classroom footage, presents a variety of techniques that can prevent or ameliorate problems. Experienced teachers and nationally recognized experts in the behavior management field discuss recommended procedures.

LESSON TITLES:

1. The Negotiation Process
2. Aggression
3. Daily Management
4. Self Management
5. Assessment
6. Reward and Punishment
7. Social Cultural Differences and Behavior
8. Group Process
9. Physical Intervention
10. Curriculum
11. Alternative Delivery Systems
12. Home/School Collaborations: Part I--Working with Parents
13. Home/School Collaborations: Part II--The Teacher/ Parent Partnership

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Dealing in Discipline

PRODUCER: University of Kentucky

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, instructor's manual

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Explains and dramatizes discipline problems and solutions. Programs deal with uses of logical consequences, reality therapy, transactional analysis, contingency management, and constructive confrontation.

LESSON TITLES:

1. An Ounce of Prevention
2. Coping with Conflict
3. Between Classes
4. The Dope on Drugs
5. Discipline and the Law
6. If A, then B
7. Before M and M's
8. More than M and M's
9. Constructive Confrontation
10. R.T. Techniques
11. T.A. for Teachers
12. Games

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education, Sociology, Psychology

TITLE: Dealing with Social Problems in the Classroom

PRODUCER: International University Consortium

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, administrator's guidelines, promotional material

RIGHTS: Contact producer

COURSE DESCRIPTION:

Explores drug abuse, broken homes, literacy, school violence, and the effects of television on children.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Social Science and History

DISCIPLINE: Education

TITLE: Interaction: Human Concerns in the Schools

PRODUCER: Maryland Instructional Television

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide, work manual, administrator's manual

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Provides understanding of and respect for human and cultural similarities and differences in a pluralistic society. Viewer can apply instruction to actual relationships with pupils, other staff members, and the community. Course aims to enhance student's understanding of effective interpersonal and intergroup relationships.

LESSON TITLES:

1. Issues and Conflicts in Human Interaction
2. Perspectives: Historical, Anthropological, Political, Economic, and Social
3. Rationale for Seeking Solutions
4. Self-Concept
5. Personal Growth
6. Understanding What We Value
7. Components of Communication
8. Group Functions
9. Interpersonal Communication
10. Intrapersonal Communication
11. Communication Patterns, Part I
12. Communication Patterns, Part II
13. Language
14. Prejudices, Stereotyping, Biases
15. Examining Conflict
16. Anticipating and Preventing Conflict
17. Coping Strategies in the Classroom
18. Dealing with Conflict in the School
19. Factors Impacting on School Climate
20. Community as a Resource
21. Peer Group Interactions
22. Teacher/Pupil Interactions
23. Pupil Interactions
24. Examining Interactions
25. Processing
26. Cultivating Pupil Self-Image
27. Boundary Setting
28. Contracting
29. Understanding the Expectation Effort
30. Conclusions

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Programming for the Gifted: Models and Methods

PRODUCER: University of Wisconsin-Extension

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook, faculty manual

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Deals with six general program models for educating gifted, talented, and creative children in K-12. Features nationally recognized experts discussing various models. Intent is to suggest to school districts, school administrators, and teachers a variety of designs for meeting the needs of gifted students.

LESSON TITLES:

1. Harry Passow, Acceleration I
2. Harry Passow, Acceleration II
3. John Feldhusen, Enrichment I
4. John Feldhusen, Enrichment II
5. Maxine Greene, Curriculum (Aesthetic Education I)
6. Maxine Greene, Curriculum (Aesthetic Education II)
7. Mary Meeker, Curriculum (Structure of the Intellect I)
8. Mary Meeker, Curriculum (Structure of the Intellect II)
9. Donna Rae Clasen, Strategies
10. Donna Rae Clasen, College for Kids
11. Dorothy Sisk, Personal Development I
12. Dorothy Sisk, Personal Development II

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Simple Gifts

PRODUCER: University of Wisconsin, Madison

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, book of readings

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Covers problems and opportunities of working with the gifted and talented. Helps teachers identify needs of these students and provides practical solutions for meeting them.

LESSON TITLES:

1. Definition of Giftedness
2. History of the Educational Treatment of the Gifted
3. Identification: Convergent
4. Identification: Divergent
5. Self-Awareness
6. Qualitatively Different Program
7. The Helping Adult
8. Going Faster
9. Going Deeper
10. Going Wider
11. Creativity
12. Issues

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Survival Skills for the Classroom Teacher

PRODUCER: International University Consortium

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, administrator's guidelines, promotional material

RIGHTS: Contact producer

COURSE DESCRIPTION:

Deals with contemporary teaching problems such as teacher stress, multicultural education, integration, and school discipline.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Teaching Students with Special Needs (Secondary Level)

PRODUCER: Maryland Instructional Television

FORMAT: Video

NUMBER OF PROGRAMS: 15 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Upper

ANCILLARY MATERIALS: Student manual, faculty manual, textbook

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Designed to assist educators in identifying and assessing needs of secondary-level students who have learning problems. Presents variety of instructional techniques and strategies. Host, Gilbert Schiffman of Johns Hopkins University, interviews authorities and introduces dramatic segments that illustrate problems and solutions. Course can be used as professional development for teachers, as graduate-level course, or as undergraduate course for teachers in training.

LESSON TITLES:

1. Special Needs Students in the Classroom
2. Development Characteristics of Adolescents
3. Teacher and Peer Attitudes
4. The Team Approach
5. Management of the Classroom Environment
6. Behavior Problems in the Classroom
7. Instruction in Reading
8. Instruction in Written Expression
9. Instruction in Mathematics
10. Instruction in Social Studies and Science
11. Career and Vocational Education
12. Parent Counseling
13. Medical Problems
14. Survival Skills
15. Employability and the World of Work

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education

TITLE: Teaching Writing: A Process Approach

PRODUCER: Maryland Instructional Television/ Maryland State Department of Education

FORMAT: Video

NUMBER OF PROGRAM: 9 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1982 LEVEL: Upper

ANCILLARY MATERIALS: Study guide, textbook, administrator's guide

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Undergraduate, graduate, or inservice course for all teachers involved in helping students improve their writing skills. Presents five-step model for teaching writing based upon current knowledge of the composing process. Each program contains a discussion of the topic and several demonstrations of teaching strategies. Demonstrations were taped in actual classrooms with four teachers at selected grade levels from first through twelfth.

LESSON TITLES:

1. Introduction to the Writing Process
2. Diagnosis
3. Prewriting I
4. Prewriting II
5. Writing
6. Rewriting: Revising
7. Rewriting: Proofreading
8. Evaluation
9. Organizing A Year's Plan

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Education, Sociology, Psychology

TITLE: Values and Morality in School

PRODUCER: International University Consortium

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Upper

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Examines values clarification, moral education, and related issues.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Ethnic/Area Studies

TITLE: Japan: The Living Tradition

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 14 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, study guide, audio cassette, viewing notes, course information and use manual

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Concentrates on the pre-modern history and traditional culture of Japan. Includes a major television series. Can be used in adult education or in campus classrooms. Components effectively used within existing courses.

LESSON TITLES:

1. The Japanese, Part I
2. The Japanese, Part II
3. Early Japan, Part I
4. Early Japan, Part II
5. The Feudal Experience, Part I
6. The Feudal Experience, Part II
7. The Visual Arts, Part I
8. The Visual Arts, Part II
9. Literature, Part I
10. Literature, Part II
11. The Performing Arts, Part I
12. The Performing Arts, Part II
13. Religious Experience, Part I
14. Religious Experience, Part II

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Ethnic/Area Studies

TITLE: Japan: The Changing Tradition

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 16 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, study guide, course information and use manual, newspaper articles, viewing notes, test items

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Second half of series. Deals with modern Japanese history beginning with Japan's first contacts with the West in the 1500s to its present-day position as a leading economic power.

LESSON TITLES:

Early Contact With the West
1. The Cross and the Gun
2. Revere the Emperor, Expel the Barbarian

The Meiji Period
3. Rich Country, Strong Military
4. The Meiji Transformation

The Taisho and Early Showa Periods
5. Men of Action
6. The Road to Disaster

Postwar Japan
7. Rebirth of a Nation
8. A Nation Among Equals

The Economy
9. Made in Japan
10. The Fragile Economy

Politics
11. Of the People
12. Democracy, with a Difference

Society
13. Society and the Individual
14. The Search for Opportunity

Patterns of Life
15. The Japanese Style
16. Three Families

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Geography

TITLE: Of Earth and Man: An Introduction to Geography

PRODUCER: Maryland College of the Air

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Textbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Explores the earth as the home of man, combining physical and cultural geography. Fosters geographic thought through the development of basic concepts of the discipline as applied to the regions under study. Includes elements of anthropology, economics, political science, biology, geology, and climatology.

LESSON TITLES:

1. Geography: A World of Possibilities
2. The Earth: Movement, Fire, Renewal
3. The Earth: Child of the Sun
4. Mapping: Exploring the Globe
5. Mapping: Round World, Flat Maps
6. Amazonia: Green House or Green Hell?
7. Amazonia: Balancing Man and Nature
8. Deserts: The Dry World
9. Deserts: Saharan Coins of Gold
10. Mountains: The Challenge of the Slope
11. Mountains: Hermit Kingdom, Tourist Paradise
12. Trobriand Islands: Kula and Cricket
13. Eskimos: Life at the Top of the World
14. India: A Glorious Harmony of Opposites
15. China: The Good Earth and the Middle Kingdom
16. China: The People's Republic and the New Society
17. The Soviet Union: A Riddle Wrapped in a Mystery
18. The Soviet Union: Land of the Peasant
19. The Soviet Union: Temples of Industry
20. Japan: From the Sword to the Bomb
21. Japan: A Costly Miracle
22. The United States: A Never-ending Frontier
23. The Great Plains: World of the Cowboy
24. America's Heartland: The Unconditional Guarantee
25. The American City: Growth to Metropolis
26. Megalopolis: The Golden Door
27. Cities: The Man-Made World
28. The World: Listening to the Earth
29. The World: Possibilities... and Impossibilities

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: America: The Second Century

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, test bank, faculty guide, administrative guide, promotional materials, consultant services

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Survey of U.S. history from 1865 to present. Traces the economic, political, diplomatic, and social development of American life. Examines the closing of the frontier, the age of industrialism, the Progressive Era, America's emergence as a super power, the Roaring Twenties, the age of F.D.R. from the Depression through World War II, post-war America from Truman to Watergate, and contemporary society.

LESSON TITLES:

1. The Great Depression
2. The Rise of Big Business: Part I
3. The Rise of Big Business: Part II
4. Poverty in America
5. The American Laborer: Part I
6. The American Laborer: Part II
7. The American Farmer: Part I
8. The American Farmer: Part II
9. The Election of 1896
10. The Progressives
11. Reform and Reaction
12. The New Deal
13. The Legacy of the New Deal
14. Political Corruption
15. The Spanish-American War
16. The Price of Imperialism
17. World War I
18. Between the Wars
19. World War II
20. The Cold War
21. Containment Reassessed
22. The American Indian
23. Black Americans: Part I
24. Black Americans: Part II
25. Hispanic Americans
26. Immigration in America
27. Women in America
28. America: An Urban Nation
29. America's Environment
30. What Is Past Is Prologue

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: The American Story

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower, Upper

ANCILLARY MATERIALS: Textbook, study guide, administrative guide, faculty guide, tests, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Narrates the story of the U.S. from its beginnings to the Centennial celebration of 1876. Examines national controversies and crises from several viewpoints.

LESSON TITLES:

1. The First Americans
2. Rediscovering America
3. The English Settlements
4. Pilgrims and Puritans
5. Life in the Colonies
6. Colonial Society
7. War for Empire
8. Road to Revolution
9. Declaring Independence
10. Colonials and Redcoats
11. Victory at Yorktown
12. Creating a Republic
13. Experiment in Government
14. The Federalist Era
15. Jefferson as President
16. War of 1812
17. Nationalism
18. The Emerging Nation
19. The Age of Jackson
20. Expansion and Removal
21. Social Reform
22. Manifest Destiny
23. War with Mexico
24. The Gold Rush
25. Eve of Conflict
26. The Blue and the Grey
27. Road to Appomattox
28. Reconstruction
29. Rebuilding the Union
30. Centennial

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: Foundations of American Nationalism

PRODUCER: University of Mid-America

FORMAT: Audio

NUMBER OF PROGRAMS: 15 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, student manual, listener's notes, newspaper articles, course information and use packet

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Introduces students to last half of the 18th century, when intellectual and institutional foundations of American nationalism were laid. Includes pertinent materials on events in Europe as they affected national events in the U.S.

LESSON TITLES:

1. Nationalism
2. Men Make Government
3. Federalism
4. Colony to Commonwealth
5. Limited Government
6. Bill of Rights
7. Separation of Church and State
8. The Subordination of the Military to Civilian Authority
9. Judicial Review
10. Southern Nationalism
11. Political Parties
12. Economic Nationalism
13. Foreign Policy
14. Classless Society
15. Conclusion

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: Great Plains Experience

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 6 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1976 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, study guide, newspaper articles, viewing notes, instructor's manual

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Describes the Great Plains and the people who lived in that region. Programs and accompanying materials have universal application through use of cultural approach to history that develops general principles of how man adapts to his environment. Students are introduced to the methods of the anthropologist, social scientist, and historian.

LESSON TITLES:

1. The Land
2. The Lakota: One Nation on the Plains
3. Clash of Cultures
4. The Settling of the Plains
5. The Heirs to No Man's Land
6. Four Portraits

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History, Humanities

TITLE: Heritage: Civilization and the Jews

PRODUCER: WNET

FORMAT: Video

NUMBER OF PROGRAMS: 9 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1984 LEVEL: Lower

ANCILLARY MATERIALS: Study guide, readings, text based on television series

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Introductory-level survey of Jewish history, thought, and culture against the backdrop of the civilizations in which Jews have lived. Charts the story of the Jewish people over almost 5,000 years, and in the process provides a prism through which to examine these major civilizations and cultures. Abba Eban--scholar, writer, and former Israeli ambassador to the United Nations and to the U.S.--is the on-screen host, commentator, and chief consultant to the series.

Programs include landscape and archeological artifacts, sites, and reconstructions in the Middle East and the great remains of the classic world; the manuscripts and art that preceded the printed word; the painting, sculpture, prints, lithographs, etchings, and architecture of later centuries; photographic stills that begin to appear in the 19th century; black and white footage from early motion pictures; and film footage from the 20th century. Original score for the series is augmented by authentic folk music, opera, and period compositions.

LESSON TITLES:

1. A People is Born (Circa 5000 BCE-586 BCE)--Origins of the Ancient Israelites
2. The Uses of Adversity (586 BCE-135 CE)--Encounter with Greece and Rome
3. The Shaping of Traditions (Circa 50-800)--Rabbinic Judaism and the Rise of Christianity and Islam
4. The Crucible of Europe (Circa 800-1492)--Emergence of Sephardic and Ashkenazic Jewries
5. The Search for Deliverance (Circa 1492-1789)--The Jews and the Beginnings of the Modern Age

6. Roads from the Ghetto (1789-1917)--Emancipation in Western and Eastern Europe and New Definitions of Judaism
7. The American Jewish Experience (1654-1932)--A New Golden Age of Judaism
8. Out of the Ashes (1932-1948)--The Destruction of European Jewry and its Aftermath
9. The Living Legacy (1948-present)--World Jewry Today

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: The History of Mexico

PRODUCER: Los Angeles Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 45 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, test bank, administrative manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Social, economic, and political history of Mexico from the Pre-Columbian period to the present. Course will enable student to have a greater grasp of Mexico's development and its position in the world community.

LESSON TITLES:

1. The Land of Contrast
2. The Hunter from Tepexpan
3. The Magicians
4. One Reed, Our Prince, the Serpent of Precious Feathers
5. "One Imix, Eight Pop"
6. The People of the Fifth Sun
7. The Spain of Cortes
8. The Birth of the Nation State--Spain
9. The Search for Cipangu
10. The Conquest
11. The Administrative System of New Spain
12. The Encomienda of Juan de Cuevas
13. "The End of the Line"
14. A Mission to Christianize
15. Brotherhood of the Cloth
16. New Spain's Northern Frontier
17. From Enlightenment to Independence
18. Death to the Gachupines!
19. Augustin Primero, Emperor of Mexico
20. The Constitution of 1824 and the First Federal Republic
21. Antonio Lopes de Santa Anna--Hero of Tampico
22. The Catastrophe of Centralism
23. El Rincon del Mundo
24. The Mexican-American War
25. The Continuing Controversy
26. "La Reforma"
27. The Constitution of 1857
28. Maximilian and the French Intervention
29. The Rise of Porfirio Diaz
30. The Era of Pan O Palo
31. The Decline of "Don Perfido"
32. Omens of a Revolution
33. Francisco I. Madero
34. A Traitor and an Assassin
35. Generales del Norte
36. The Constitution of 1917
37. "Adelita...Cry for Me with Your Eyes!"--The Literature and Music of the Revolution of 1910

38. The Odyssey of Obregon and Calles
39. Hope for the Masses
40. Mexico for the Mexicans
41. Revolutionary Muralists
42. The Mexican Miracle
43. Challenge to a Maturing Nation
44. Mexico Looks Toward the Future
45. Mexico: Past, Present, and Future

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History

TITLE: Roots

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 12 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1977 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact Films Incorporated

COURSE DESCRIPTION:

Covers the history of American blacks and fills a gap in present course offerings. Students gain a new understanding and appreciation for the history and contribution of black Americans. Can be used for on-campus and external learning programs.

LESSON TITLES:

1. The African
2. The African (cont'd)
3. The Slave
4. The Slave (cont'd)
5. The Escape
6. The Choice
7. The Uprooted
8. Chicken George
9. Chicken George (cont'd)
10. The War
11. Freedom
12. Freedom (cont'd)

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: History, Political Science

TITLE: Vietnam: A Television History

PRODUCER: WGBH Education Foundation

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1983 LEVEL: Lower

ANCILLARY MATERIALS: Study guide, textbook, audio cassette, faculty manual, administrator's manual

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

A full record of the conflict--from background on Vietnam and its people, through the French presence, to a chronology of the period from 1945 to 1975, with an examination of the impact of the war on American society in the years that followed. Series places Vietnam in the perspective of history and permits viewers to form their own conclusions about the basis for the conflict, what was won and lost, and by whom. Instructional materials give learners with a range of skills and interests the structures and practice needed to learn from contemporary history. Using Vietnam, educators can help students to assimilate the experience of the Vietnam War on a personal level--incorporating emotional and moral issues--while supporting a rigorous examination of the historical and political context of the period--its causes, record, and influence.

LESSON TITLES:

1. Roots of a War
2. The First Vietnam War (1946-54)
3. America's Mandarin (1954-63)
4. LBJ Goes to War (1964-65)
5. America Takes Charge (1965-67)
6. America's Enemy (1954-67)
7. Tet, 1968
8. Vietnamizing the War (1968-73)
9. Cambodia and Laos
10. Peace is at Hand (1968-73)
11. Homefront USA
12. The End of the Tunnel (1973-75)
13. Legacies

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Government, History

TITLE: American Government I*

PRODUCER: Dallas County Community College District**

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, administrative guide, faculty guide, tests, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Surveys the historical, philosophical, and economic bases of western political systems and explains the writing and subsequent elaboration of the U.S. Constitution. Concentration on American federalism and the way it functions from the local, state, regional, and national perspectives.

LESSON TITLES:

1. Values of Democracy
2. Democratic Process
3. The Future of Democracy
4. The Computer and Democracy
5. A Case Study of Democracy: Civilian Control Over the Military
6. Background to Constitutional Convention
7. The Constitutional Convention
8. The Changing Constitution
9. Amendment Process
10. The Living Constitution
11. Comparison of State Constitutions in Texas, California, and Illinois
12. Federalism: The Division of Power Between the Nation and the States
13. How Federalism Works
14. State Governments: The Role of the States in the Federal System
15. Local Governments
16. Metropolitan Areas: Regional Inter-Governmental Cooperation
17. The Future of Federalism: A Case Study of Regional Transportation
18. Political Socialization
19. Political Participation
20. Case Study of Handicapped Interest Group on Political Socilization and Participation
21. Public Opinion: What Is It--Where Is It?
22. The Media and the Government
23. Interest Groups: Functions and Methods
24. Opinion Leaders: The Case of Ralph Nader
25. An Interest Group in Action: A.M.A. and Medicare

26. Political Parties: Their Functions
27. Political Parties and the Election Process
28. A Citizen Chooses a Presidential Candidate
29. Election of a President: The Carter Campaign
30. Selection of a President by Presidential Character Model

NOTES:

*This course forms one part of an American government survey curriculum produced by Dallas County Community College District and others.
**Produced in conjunction with Coast Community College, Chicago City Colleges, and Tarrant County Junior College District.

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Government, History

TITLE: American Government II*

PRODUCER: Dallas County Community College District**

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, administrative guide, faculty guide, tests, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

An in-depth study of the three branches of the U.S. government. Explores the Presidency, the Congress, and the Judiciary from many perspectives. History, function, philosophy, selection, policies, and consequences of the actions of each branch and their agencies are examined.

LESSON TITLES:

1. The Roles of the President
2. A Day in the Life of the President
3. Functional Presidency
4. The Historic Presidency
5. The Staffing of the Presidency
6. The Bureaucracy
7. The President and the Budget
8. Foreign Policy
9. Domestic Policy: Who Makes It and How?
10. Philosophies of Representation
11. Structural Congress: Comparison Between Senate and House of Representatives and Powers of Congress
12. Congressional Power Relative to Presidential Power
13. Congressional Oversight
14. How A Bill Becomes Law
15. A Triple Alliance
16. A Comparison of the Texas and California State Legislatures
17. Judicial Organization and Philosophy
18. The Supreme Court
19. Judicial Review: What It Is and How It Works
20. Selection of Judges: The Impact on Decision-Making
21. Type of Law and the American Legal System
22. Capital Punishment or Rehabilitation
23. Civil Rights and Liberties
24. The 14th Amendment
25. Freedom of Speech and Press
26. Freedom of Religion

27. Rights of the Accused
28. Equal Rights for Minorities
29. Busing and Integration
30. Women's Rights

NOTES:

*This course forms one part of an American government survey curriculum produced by Dallas County Community College District and others.
**Produced in conjunction with Coast Community College, Chicago City Colleges, and Tarrant County Junior College District.

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Government

TITLE: American Government Survey (Chicago Adaptation)*

PRODUCER: Dallas County Community College District**

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbooks, study guide, examinations, faculty guide, administative guide, promotional materials, consultant service

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Overview of the U.S. governmental system, including theories and principles of constitutional government as well as of state government (California, Texas, Illinois).

LESSON TITLES:

1. Principles of Democracy
2. Expansion of Voting Rights
3. The United States Constitution
4. The Living Constitution
5. The Amendment Process
6. State Constitutions
7. Federalism
8. Grants-in-Aid
9. Local Government
10. Future of Federalism
11. Public Opinion
12. Interest Groups
13. Political Parties
14. Nominating Process
15. Media and Campaigning
16. Philosophies of Representation
17. The Congress
18. Congressional Oversight
19. Domestic Policy
20. Roles of the President
21. The Functional Presidency
22. The Bureaucracy
23. Foreign Policy
24. The Federal Judiciary
25. Supreme Court--Influence of Personalities
26. Judicial Review
27. The Legal System
28. Individual Rights
29. Due Process and Equal Protection
30. Women's Rights

NOTES:

*There are four versions of this series, adapted to meet curriculum requirements of various states.
**Produced in conjunction with Coast Community College, Chicago City Colleges, and Tarrant County Junior College District

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Government

TITLE: Congress: We The People

PRODUCER: WETA-TV*

FORMAT: Video

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1984 LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer, Films Incorporated, or PBS Adult Learning Service

COURSE DESCRIPTION:

Presents an inside view of the U.S. Congress and the complex range of individuals, organizations, and processes it embodies. Programs are hosted by journalist Edwin Newman and feature Norman Ornstein, professor of political science, Catholic University. Themes addressed include congressional elections, committees, parties, leadership, lobbying, constituency relations, law making, budgeting, and separation of powers.

LESSON TITLES:

I. We The People
1. A Freshman Comes to Washington
2. The Two Houses of Congress

II. Who Serves in Congress?
3. A Variety of Voices
4. Who Serves in Congress?

III. Congressional Elections
5. Congressional Elections
6. "...And If Elected"

IV. Congress in Committee
7. Congress in Committee
8. Compromise in Congress

V. Who Runs Congress?
9. Who Runs Congress?
10. Varieties of Leadership

VI. Congressional Rules and Staff
11. Rules and Norms
12. The Congressional Establishment

VII. The House Floor
13. A Day in the House
14. Yeas and Nays

VIII. Home Style
15. A Congress of Communities
16. Home Style

IX. Lobbying Congress
17. Lobbying Congress
18. Influence and Interests

X. Congress and the President
19. Congress and the President
20. The Power to Impeach

XI. Separation of Powers
21. Congress and the Bureaucracy
22. Congress and the Courts

XII. Assessing Congressional Behavior
23. Congress and the Media
24. Congressional Ethics

XIII. Assessing Congressional Power
25. The Power of the Purse
26. An Assessment of Congress

NOTES:

*Produced in conjunction with the American Political Science Association

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Government

TITLE: The Constitution: That Delicate Balance

PRODUCER: Columbia University

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1984 LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide, textbook

RIGHTS: Contact producer, Films Incorporated, or PBS Adult Learning Service

COURSE DESCRIPTION:

Introductory-level course on constitutional rights and public policy featuring seminars on controversial constitutional issues such as capital punishment, affirmative action, abortion, executive privilege, and national security vs. freedom of the press. Seminars are dramatic confrontations between a skilled moderator and a distinguished group of professors, journalists, lawyers, judges, and politicians. Students watch the likes of Gerald Ford, Dan Rather, Edmund Muskie, Gloria Steinem, and Shirley Hufstedler wrestle with hypothetical cases laid out by a law school professor in the manner of a Socratic dialogue.

Series is supplemented by a study guide and a book by former CBS News president Fred Friendly that presents the human stories behind the landmark Supreme Court cases that have helped define the Bill of Rights. The book dramatizes how our Constitution adapts to changing times, how the Supreme Court corrects the errors of past courts, and how the balance between individual and societal rights works.

LESSON TITLES:

1. Executive Privilege and the Presidency: The President versus the Congress
2. War Powers: The President and the Congress
3. Presidential Elections, Presidential Succession
4. The Electoral Process: Money and the Media
5. National Security and Freedom of the Press
6. School Prayer, Gun Control, and the Right to Assemble
7. The Right to Live, the Right to Die
8. Criminal Justice and a Defendant's Right to a Fair Trial

9. Crime and the Insanity Defense
10. Punishment and the Death Penalty
11. Affirmative Action versus Reverse Discrimination
12. Immigration and Illegal Aliens
13. Federalism: The National Government versus the States

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Political Science, Economics

TITLE: Power in America

PRODUCER: National Federation of Community Broadcasters*

FORMAT: Audio

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Textbook, student manual, instructor's notes

RIGHTS: Contact National Public Radio

COURSE DESCRIPTION:

Focuses on three important theories of power: the power elite theory; the view of America as a nation of diffused and balanced power; and the position that a liberal establishment sets the agenda for politics and dominates the country. Such questions as who rules America are considered by leading scholars, political analysts, and others.

LESSON TITLES:

1. Who Has the Power?
2. Public Opinion
3. Voter Power
4. Media Power
5. The Power of Ideas
6. Economic Power
7. The Presidency, Part I
8. The Presidency, Part II
9. Congressional Power
10. Judicial Power
11. Bureaucratic Power
12. Underrepresented Power
13. Summing Up

NOTES:

*Produced in conjunction with National Public Radio

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Psychology, Education

TITLE: The Growing Years (Introduction to Child Development)

PRODUCER: Coast Community College District*

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1977 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, study guide (test bank with faculty manual available as a promotional package)

RIGHTS: Contact producer

COURSE DESCRIPTION:

Integrated learning system on child development. Presents interplay of biological factors, human interactions, cultural forces, and social structure and how they shape the growing child through adolescence.

LESSON TITLES:

1. Introduction
2. Studying Children
3. Heredity and Environment
4. Prenatal Development
5. The Newborn
6. The Growing Infant
7. The Learning Infant
8. Beginning Language
9. The Emerging Personality
10. Individual Differences
11. Preschool Physical Development
12. Nutrition
13. Preschool Mental Development
14. Developing Language Skills
15. Preschool Personality
16. Social Stereotyping
17. Child's Play
18. The Preschool Experience
19. The Child's Mind, Part I
20. The Child's Mind, Part II
21. Aspects of Intelligence
22. The Child's Personality
23. Moral Development
24. Aspects of Socialization
25. Childhood to Adolescence
26. Adolescent Personality Development
27. Adolescent Mental Development
28. Children in Families
29. Adolescence to Adulthood
30. Conclusion

NOTES:

*Produced in conjunction with the Extension Division of University of California, San Diego and the McGraw-Hill Book Company

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Psychology/Human Development

TITLE: Making a Living Work

PRODUCER: Ohio University

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1982 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Examines adult life/work planning. Features adults asking important questions about their own life and career goals, and identifies strategies for reaching those goals.

LESSON TITLES:

1. Personal Changes: Occupational, Lifestyle, and Personal Relationships
2. Lifestyles/Lifestages
3. Values
4. Skills Used in Work, Education, and Leisure
5. World of Work: Transferable Skills
6. Decision Making
7. Occupational Research
8. Making Changes

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Psychology/Human Development

TITLE: Optimal Self-Development

PRODUCER: Miami-Dade Community College

FORMAT: Audio

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, guidebook/workbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Self-discovery course on the psychology of the individual. Course enables each student to develop personal approach to living his or her own life. Facets of personal psychology ranging from the identification and management of stress, anxiety, and anger to an exploration of love, personal identity, and values, and methods for achieving self-actualization are explored.

LESSON TITLES:

1. Understanding the Theories of Self-Development
2. Understanding Your Feelings and Physiological Needs
3. Managing Your Stress to Avoid Distress
4. Optimal Health Maintenance for Safety Against Degenerative Diseases
5. Satisfying the Need for Safety Against Anxiety
6. Managing Anger and Agression through Effective Self-Assertion
7. Learning to Love Interdependently
8. Resolving Interpersonal Conflict and Enhancing Interpersonal Effectiveness
9. Choosing Enduring Relationships
10. Clarifying Identity and Enhancing Self-Confidence and Esteem
11. Clarifying Values
12. Determining Purpose and Striving Toward Self-Actualization
13. The Quest for Ultimate Purpose
14. Applying Optimal Self-Development Concepts to a Specific Human Problem

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Psychology

TITLE: Understanding Human Behavior

PRODUCER: Coast Community College*

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty manual

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Introductory psychology course that encourages understanding and appreciation of the scientific approach to the study of human behavior. An integrated learning system, course surveys the physiological, intra-psychic, and social-behavioral perspectives on human thought and behavior; sensation and perception; motivation; learning and memory; maturation and development; personality theory and psychotherapy; and social psychology.

LESSON TITLES:

1. Human Psychology
2. The Brain
3. Consciousness and Sleep
4. Altered States of Consciousness
5. Functions of the Brain
6. Sensory Psychology
7. Taste, Smell, Hearing
8. Vision
9. Sensory Deprivation
10. Visual Perception
11. Subliminal Perception
12. Motivation and Hunger
13. Sexual Motivation
14. Stress
15. Conditioning
16. Operant Conditioning
17. Memory
18. Pain and Hypnosis
19. Genetic Psychology
20. Emotional Development
21. Cognitive Development
22. Personality Theory
23. Personality Tests
24. Abnormal Psychology
25. Psychotherapy, Part I
26. Psychotherapy, Part II
27. Interpersonal Attraction
28. Social Groups
29. Persuasion
30. Applied Psychology

NOTES:

*Produced in conjunction with City Colleges of Chicago, Dallas County Community College District, Miami-Dade Community College, State of Florida Department of Education, Southern California Consortium for Community College Television, and University of Mid-America

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Psychology, Sociology

TITLE: Voyage: Challenge and Change in Career/Life Planning

PRODUCER: Coast Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Workbook, faculty manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Focuses on process by which students may plan effective and satisfying relationships of work to life. Explores areas of major interest and concern to students and career education counselors and instructors. Topics include: self-assessment, dealing with change, decision making, people, and environment.

LESSON TITLES:

1. Voyage: An Introduction to Career/Life Planning
2. Getting Your Bearings
3. Tools for Dealing with Change
4. Lifestyle
5. Self-Assessment
6. What Are Skills?
7. Transferable Skills
8. Motivational Patterns
9. Interests
10. Values and Career Decisions, Part 1
11. Values and Career Decisions, Part 2
12. Values and Career Decisions, Part 3
13. Creating Harmony in Your Life
14. Overcoming the Obstacles
15. What Is Work?
16. How Occupations are Organized
17. Decision Making
18. Where Do You Want To Work?
19. People Environments
20. Time and Money
21. Organizational Structures and Personalities
22. Getting It All Together
23. How to Get Started
24. Researching the Information
25. Finding the Jobs
26. The Field Survey
27. The Resume
28. The Interview
29. Vitality in Career and Lifestyle
30. Review and Goal Setting

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Sociology/Social Work

TITLE: Child Abuse and Neglect

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Not supplied

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Surveys the situation and provides a historical overview of the problem of abused and neglected children. Viewer will become familiar with the evolution of concern for such afflicted children and their needs and rights within the family. The series also studies the dynamics and the outcomes of child abuse and neglect--and demonstrates how society has sought to intervene, treat, and prevent such abuse and neglect.

LESSON TITLES:

1. History of Parent-Child Relationships
2. The Rights of Children
3. Defining Physical Abuse of Children
4. Defining Neglect of Children
5. Dynamics of Child Abuse and Neglect
6. Outcomes of Child Abuse and Neglect
7. Sexual Abuse of Children
8. Intervention: The Professional's Role
9. Intervention: Team Approaches
10. Prevention of Child Abuse and Neglect

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Sociology

TITLE: Family Portrait: A Study of Contemporary Lifestyles (Marriage and Family)

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 30-45 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Examines marriage, family, and alternative lifestyles from sociological and psychological perspectives.

LESSON TITLES:

Introduction: Accelerating Relationships
1. Family Portrait*
2. The Learning of Love*
3. The Game of Romance*
4. Pairing Off
5. Mate Selection and Marriage Readiness*
6. Engagement Update
7. What Makes a Marriage Successful?

The Physical and Sexual Aspects of Relating
8. Changing Patterns*
9. Sexual Myths and Misinformation
10. Physiological Aspects of Sex*
11. Pregnancy and Childbirth*
12. Contraceptives and Birth Control Methods*
13. The Effects of Unwanted Pregancy*
14. Venereal Disease: The Hidden Epidemic*

Becoming Married
15. The Decision to Marry
16. Legal Aspects of Marriage*
17. The Wedding Ceremony: Traditions and Rituals
18. Intermarriage
19. Single Living*
20. Alternative Lifestyles, Part 1*
21. Alternative Lifestyles, Part 2*

Adjusting and Changing
22. Early Adjustments to Marriage
23. Dealing with Conflict
24. Communication and Self-Image*
25. Structuring Communication*
26. Sexual Compatibility*
27. Sexual Incompatibility and Dysfunction
28. Changing Roles*
29. Dollars and Sense*
30. Economics in Marriage

Crises and Breakdown of Marriage
31. The Strained Knot: Crises in Marriage*
32. Violence in the Family*
33. The Role of the Family Service Agencies
34. Therapies Used in Counseling
35. Marriage and Family Counseling
36. Marital Termination*
37. Psychological Implications of Divorce
38. Remarriage*

Families with Children
39. Deciding to Have Children*
40. Successful Parenting*
41. Single-Parent Families

Choices, Changes, and Challenges
42. Death of a Mate*
43. Marriage in the Middle Years*
44. Relationships of the Elderly*
45. The Future of Marriage

NOTES:

*Core courses

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Sociology, Science

TITLE: Fast Forward

PRODUCER: TV Ontario (Dallas)

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Reviews fast-breaking technological developments and their implications, showing gadgets such as fast-read "sound books" for the blind. Course shows how we will soon be linked with everyone in the world through TV satellites, and how inventions in fiber optics will speed up the pace of electronic advancement.

LESSON TITLES:

1. The Micro-electronic Revolution
2. The Information Marketplace
3. Personal Computing
4. Global Television
5. Humanized Technology
6. Biomedical Engineering
7. Communications
8. New Perspectives
9. Simulations
10. Electronic Medicine
11. Memory and Storage
12. Music
13. Television

ACADEMIC AREA: Social Sciences and History

DISCIPLINE: Sociology

TITLE: Focus on Society

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, administrative guide, tests, faculty guide, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Course on principles of sociology that offers clues to understanding the myriad sociological events of our times. Explores the intersection of history and biography in our society, where the social conditions of the present relate to the attitudes of the recent past.

LESSON TITLES:

1. The Promise of Sociology
2. Culture Bearers
3. U.S. Culture
4. Becoming Human
5. Childhood Socialization: Television
6. Sex Roles
7. The Life Cycle: Aging
8. Groups and Social Organization
9. Formal Organizations
10. Deviance
11. Social Control
12. Social Inequality
13. U.S. Social Class
14. Poverty
15. Minorities
16. The Family
17. The Changing American Family
18. Education
19. Religion of America
20. The Electronic Church
21. Government
22. The Work Ethic
23. Sports
24. Crowd Behavior
25. Social Movements
26. Small Town Life
27. Life in the City
28. Urban Problems
29. Social Change
30. The New Society

THE PROFESSIONS

ACADEMIC AREA: The Professions

DISCIPLINE: Business/Accounting

TITLE: Accounting

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAM: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, worksheets, independent study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Series supplements accounting basics for undergraduates not majoring in accounting. Panel discussions on topics related to concepts, principles, and skills of accounting. Reinforces mastery of content, motivates exploration of related topics, and places accounting within the broader context of business ideals and practices.

LESSON TITLES:

1. Portrait of a Profession
2. Financial Statements
3. Accounting and the Computer
4. Cash Managment
5. Inventory Management
6. Valuing Assets
7. Accounting Principles
8. Forms of Ownership
9. Taxation and Public Policy
10. Financial Statement Analysis
11. Pricing
12. Budgeting
13. International Accounting

ACADEMIC AREA: The Professions, Social Sciences and History

DISCIPLINE: Business, History

TITLE: American Business History

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide, recommended readings

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Series features biographical sketches of leading business figures, using their stories to develop larger themes on the history of business in America from colonial times to the present.

LESSON TITLES:

1. The Browns of Providence and Merchant Capitalism
2. Samuel Slater and the Industrial Revolution
3. James J. Hill and the Transportation Revolution
4. Andrew Carnegie and Business Ideology
5. John D. Rockefeller and the Rise of Oligopoly
6. J.P. Morgan and Finance Capitalism
7. Herbert Hoover and Political Capitalism
8. Henry Ford and Mass Consumption Society
9. Alfred Sloan and Corporate Bureaucracy
10. IBM and the Communications Revolution

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: Business Law

PRODUCER: Miami-Dade Community College

FORMAT: Audio

NUMBER OF PROGRAMS: 28 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Upper

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course surveys everyday applications of law in the business world. Designed for matriculating business majors and those involved in simple contractual business on a daily basis. Outlines concepts of contract law covering sales, bailments, personal and property rights, and consumer protection.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: Business Logistics Management

PRODUCER: Pennsylvania State University

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Upper

ANCILLARY MATERIALS: Textbook, study guide, procedure guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Covers management of logistic function in firm, including physical supply and distribution activities such as transportation, storage facility location, and materials handling.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: The Business of Management

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty manual

RIGHTS: Contact producer

COURSE DESCRIPTION:

Designed for managerial candidates recently graduated or working without formal management training. Provides skills in planning and organizing, staffing and directing, controlling, decision making, motivating, communicating, and applying managerial skills to the business organization. Course is modular to permit use in whole or in part for working adults.

LESSON TITLES:

I. Introductory Module
1. The Managerial World
2. Historical Perspectives
3. You as a Manager
4. Communicating

II. Planning
5. Planning and the Management Process
6. Planning Techniques
7. The Planning Environment
8. Decision Making

III. Organizing
9. The Working Unit
10. Influence, Power, and Authority
11. The Informal Organization
12. Organizational Communication

IV. Staffing and Directing
13. Staffing
14. Human Resource Management
15. Building Commitment and Motivation
16. Styles of Leadership
17. Managing Organizational Conflict

V. Controlling
18. Controlling
19. Financial Controls
20. Production and General Control
21. Control and Organizational Behavior

VI. Trends and Issues in Management
22. Managing Organizational Change
23. Managerial Stress
24. Survival and Advancement
25. The Productivity Dilemma
26. Managing for Productivity

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: Case Studies in Small Business

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Upper

ANCILLARY MATERIALS: Viewer's guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Provides business students, potential entrepreneurs, persons already in business, and other individuals with exposure to problems in small business management. Each film is a case study examining a single business enterprise, with a concentrated view of its operations. Can be integrated with existing course, either on- or off-campus.

LESSON TITLES:

1. The Venturer
2. The Downhill Slide
3. The Long Haul
4. Starting Up
5. Running the Show
6. The Balancing Act
7. The Breaking Point
8. Their Own Brand
9. Dealing in Wheeling
10. Taking Off

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: Introduction to Technical and Business Communication

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Not supplied

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Viewers are introduced to some of the difficulties that all communicators share--properly understanding the subject matter, tailoring what is to be communicated to various audiences, determining style, polishing the effort, etc. Series helps viewers to understand and resolve such difficulties.

LESSON TITLES:

1. Finding Out About the World
2. Understanding the Assignment
3. The First Draft--What You Know
4. Texts Generate Other Texts
5. Writing for Yourself
6. Writing for Others
7. Different Styles for Different Readers
8. What Persuades Whom?
9. Designing the Final Report
10. Polishing

ACADEMIC AREA: The Professions

DISCIPLINE: Business

TITLE: It's Everybody's Business

PRODUCER: Dallas County Community College District

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1975* LEVEL: Lower

ANCILLARY MATERIALS: Study guide, textbooks, test bank, faculty guide, administative guide, promotional materials, consultant service

RIGHTS: Contact producer

COURSE DESCRIPTION:

Survey of the complex range of operations that constitute the contemporary U.S. business scene. Live interviews and on-location visits demonstrate the latest business theories, as well as brief historical backgrounds. Overview of the way today's business community provides goods and services within the legal, ethical, and economic framework of the U.S.

LESSON TITLES:

1. American Business
2. The Business Firm
3. Environments of Business
4. Sole Proprietorships and Partnerships
5. Corporations
6. Franchising
7. Business Location
8. Sources of Capital
9. Banking
10. Securities Market
11. Bonds and Commodities
12. Accounting
13. Management
14. Internal Organization
15. Human Relations
16. Human Resource Management
17. Labor: Its History
18. Labor Unions
19. Research and Development
20. Marketing
21. Advertising
22. International Trade
23. Production
24. Transportation
25. Distribution
26. Service Economy
27. Insurance
28. Data Processing
29. Computer Operations
30. Future of Business

NOTES:

*Updated 1979

ACADEMIC AREA: The Professions

DISCIPLINE: Business/Finance

TITLE: Personal Finance and Money Mangement

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1978 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty guide, promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Non-business majors will learn basics of budgeting and buying; intricacies of home ownership, income tax, and investment; and the wise use of insurance, wills, and trusts.

LESSON TITLES:

I. Basic Concerns
1. The Economy
2. Work, Income, and Your Career

II. Getting What You Need
3. Creating a Workable Plan
4. The Smart Shopper
5. Frauds and Swindles
6. Transportation
7. Leisure and Recreation

III. A Roof Over Your Head
8. Buying a Home
9. Financing a Home
10. Housing Costs and Regulations
11. Renting
12. Selling Your Home

IV. Where the Money Is
13. Financial Institutions
14. Credit and Borrowing

V. Making Your Money Grow
15. Making Your Money Grow
16. The Money Market
17. The Stock Market
18. Real Estate Investments
19. Other Investment Opportunities

VI. Protecting What You Work For
20. Life Insurance
21. Health and Income Insurance
22. Financial Planning for Later Years
23. Estate Planning: The Tools You'll Use
24. Estate Planning: Achieving Your Objectives

VII. Income Taxes: How to Bite Back
25. How Income Taxes Work
26. Tax-saving Strategies

ACADEMIC AREA: The Professions

DISCIPLINE: Business, Women's Studies

TITLE: Women Up the Management Ladder

PRODUCER: University of Southern California

FORMAT: Video

NUMBER OF PROGRAMS: 8 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: Not supplied LEVEL: Lower, upper

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact producer

COURSE DESCRIPTION:

Discusses what the first line supervisor must know and do to become an effective manager. Stresses that women interested in moving up the management ladder in large organizations must first develop understanding of such factors as company objectives, organizational dynamics, personnel problems, budgets and finance, compensation policies and procedures, and facilities.

LESSON TITLES:

Information not supplied

ACADEMIC AREA: The Professions

DISCIPLINE: Law

TITLE: You and the Law

PRODUCER: Coast Community College

FORMAT: Video

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1981 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Course on the law, legal principles on which law is based, and the legal system that administers the law. Helps students understand what their legal rights are and informs them about what legal principles may be involved in a variety of daily situations.

LESSON TITLES:

1. What is the Law?
2. The Judicial System
3. The Lawyer
4. Dealing with Lawyers
5. Administrative Law
6. Criminal Law
7. Criminal Procedures
8. Courts: You as a Victim
9. Courts: You as Accused
10. Family Law
11. Minors' Rights
12. Contracts and the Consumer
13. Credit Law
14. Life Insurance and the Law
15. Health and Property Insurance
16. Landlords and Tenants
17. Housing
18. Mortgages
19. Investments
20. Checks and Notes
21. Owning a Car
22. Car Accidents
23. The Employee
24. The Employer
25. Retirement
26. Estate Planning

ACADEMIC AREA: The Professions

DISCIPLINE: Library Science

TITLE: Library Skills

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: varies

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Student handbook

RIGHTS: Contact producer

COURSE DESCRIPTION:

Presents library skills students need for course work and research papers. After viewing video programs, students work in the library (with librarians as tutors) to gain proficiency in most common information resources.

LESSON TITLES:

1. The Card Catalog
2. Reader's Guide to Periodical Literature
3. How to Use Dictionaries
4. How to Use Encyclopedias
5. New York Times Index
6. Special Periodical Index
7. Biographical Tools
8. Almanacs, Yearbooks, and Handbooks
9. Atlases and Gazeteers
10. Reviews and Criticisms
11. Writing a Research Paper
12. Book Index
13. Special Reference Materials

ACADEMIC AREA: The Professions

DISCIPLINE: Medicine, Allied Health Sciences

TITLE: Contemporary Health Issues

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 30 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1979 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty guide promotional materials

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Examines critical health questions facing today's society. Probes document issues; research findings and emerging theories are explored; points of controversy are debated by leading scholars.

LESSON TITLES:

Introduction
1. The Healthy American: Myth or Reality?

Emotional and Sexual Adjustment
2. What Motivates Human Behavior?
3. Seeking Helps: But Where?
4. A Matter of Degree
5. What is Sexuality?

The Life Cycle
6. The Code of Life
7. The Birth of a Child
8. Conception Control
9. Parenting in Today's Society
10. Aging: The Challenge of Adapting
11. Living with Dying

The Well-Adjusted Body
12. The Nutrition Gap
13. How Safe is Our Food?
14. Diet and Weight Control
15. How Fit is Fit Enough?

Substance Use and Abuse
16. The American Drugstore?
17. What's the Danger: Drug Effects and Hazards
18. Prescription and Over-the-Counter Drugs
19. Alcoholism
20. The Manufactured Epidemic

Disease
21. Changing Patterns of Disease
22. The Fight Against Disease
23. Sexually Transmitted Disease

24. Cancer: What You Don't Know Can Hurt You
25. Cardiovascular Disease: Counterattack

Health and Society
26. Prosperity and Pollution: Must They Go Together?
27. The Health Care System: What's the Score?

NOTES:

*Updated 1984

28. The Life You Save...
29. The Health Care System: Consumer Survival

Conclusion
30. The Future of Health

ACADEMIC AREA: The Professions

DISCIPLINE: Medicine, Allied Health Sciences, Social Work

TITLE: Fundamentals of Alcohol Problems

PRODUCER: University of Minnesota

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Not supplied

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Goal of series is to make viewers aware of the complexity of today's alcohol problems and the many contributors to these problems that pervade our modern-day environment. Series studies the genetic connection, world-wide social beliefs, and offers ideas and the procedures for prevention, intervention, assessment, and treatment.

LESSON TITLES:

1. Alcohol Does...
2. Genetics and Life History
3. Social Belief and Alcohol
4. Compulsive Use
5. Drinking Problems
6. Alcohol and the Family
7. Prevention
8. Intervention
9. Assessment
10. Treatment

ACADEMIC AREA: The Professions

DISCIPLINE: Medicine, Allied Health Sciences, Counseling

TITLE: Loosening the Grip (Alcohol Counseling)

PRODUCER: University of Mid-America

FORMAT: Video

NUMBER OF PROGRAMS: 11 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1980 LEVEL: Lower

ANCILLARY MATERIALS: Study guides, instructor's manual

RIGHTS: Contact GPN

COURSE DESCRIPTION:

Survey of basic information for alcohol counselors and other professionals who deal with alcoholism and alcohol-related problems.

LESSON TITLES:

1. Ain't Goin' Away
2. Alcohol and the Body
3. Picking Up the Tab
4. Louder than Words
5. The Experts on the Causes
6. The First Step
7. The End, The Beginning
8. Alcoholics Anonymous
9. A Family Matter
10. Special Treatment
11. An Ounce of Prevention

ACADEMIC AREA: The Professions

DISCIPLINE: Medicine, Allied Health Sciences, Genetics, Ethics

TITLE: Through the Genetic Maze

PRODUCER: Pennsylvania State University*

FORMAT: Video

NUMBER OF PROGRAMS: 5 LENGTH OF PROGRAMS: 60 min.

PRODUCTION DATE: 1982 LEVEL: Not supplied

ANCILLARY MATERIALS: Study guide reader, instructor's guide

RIGHTS: Contact producer or PBS Adult Learning Service

COURSE DESCRIPTION:

Recent advances in medical technology have given rise to a complex set of ethical issues related to our ability to predict accurately the risk faced by a couple of having a genetically defective child and the ability to diagnose genetic defects prenatally. The bioethical issues have a direct effect on the prospective parents, but they also affect the medical profession, social service providers, and the community at large, which must set social policy growing from these new capabilities. Course examines new technologies and follows experiences of families who have had to make decisions as a result of the technologies. Also looks at the perspectives held by researchers, counselors, doctors, and ethicists who deal with the issues daily. Coal is to give the student a base on which ethical decisons may be made.

LESSON TITLES:

1. We Can Decide
2. A Two-Edged Sword
3. A Beautiful Baby Boy, But...
4. A 50/50 Chance
5. In Future Years

NOTES:

*Produced in conjunction with the Hastings Center, Institute of Society, Ethics, and the Life Sciences

ACADEMIC AREA: The Professions

DISCIPLINE: Nursing

TITLE: Basic Nursing Skills

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 32 LENGTH OF PROGRAMS: varies

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Information not supplied

RIGHTS: Contact Robert J. Brady Company

COURSE DESCRIPTION:

Introduction to nursing skills for new students and skills review for practicing nurses. Presents a range of skills and procedures common to most nursing situations.

LESSON TITLES:

1. Giving a Complete Bed Bath
2. Making an Occupied Bed
3. Making an Unoccupied Bed
4. Oral Care
5. Bed to Wheelchair Transfer/ Stretcher Transfer of a Dependent Patient
6. Body Mechanics/ Passive Range of Motion Exercises/ Positioning the Patient in Bed
7. Applying Restraints
8. Measuring Blood Pressure/ Measuring Body Temperature/ Measuring Pulse and Respiratory Rates
9. Handwashing/ Isolation-Strict Technique/ Sterile Technique, Opening Packages and Gloves
10. Administering a Cleansing Enema
11. Assisting the Patient with the Bedpan
12. Care of the Indwelling Catheter/ Irrigating the Indwelling Catheter
13. Preparation, Administration of Oral Medication
14. Eye Irrigation and Instillation/ Ear Irrigation and Instillation/ Nasal Instillation
15. Withdrawing Medication From a Vial/ Locating Sites for Intramuscular Injection/ Administering Intramuscular Medications
16. Equipment, Routes of Parenteral Administration/ Care of Patient with an IV
17. Applying Anti-embolism Stocking, Ace Bandage/ Application of Applying Binders
18. Hot, Cold Applications

ACADEMIC AREA: The Professions

DISCIPLINE: Nursing

TITLE: Health Assessment

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: varies

PRODUCTION DATE: Not supplied LEVEL: Lower, upper

ANCILLARY MATERIALS: Study guide

RIGHTS: Contact Robert J. Brady Company

COURSE DESCRIPTION:

Presents anatomy, physiology, and skills necessary for nurses to perform a physical assessment.

LESSON TITLES:

1. The Eyes
2. The Ears, Nose, Mouth, Throat
3. Breast and Axillae
4. Thorax and Lungs
5. Peripheral Vascular
6. Heart
7. Abdomen
8. Integrement, Head and Neck
9. Pelvic Area: Female
10. Pelvic Area: Male
11. Neurological Health Assessment: Cerebellum
12. Neurological Health Assessment: Cerebellum Spinal Nerves
13. Back and Extremities

MISCELLANEOUS

ACADEMIC AREA: Miscellaneous

DISCIPLINE: Computer Science/Computer Literacy

TITLE: The Computer Programme

PRODUCER: British Broadcasting Corporation

FORMAT: Video

NUMBER OF PROGRAMS: 10 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Lower

ANCILLARY MATERIALS: Textbook, study guide, faculty guide, readings

RIGHTS: Contact Films Incorporated

COURSE DESCRIPTION:

Presents basic concepts of microcomputers and their applications and effects. Major part of course is for student to gain experience with microcomputers by learning the rudiments of BASIC. It is expected that each student has access to a computer. Course objectives are aimed at changing the learner's attitudes toward computers and their use, improving understanding in the area commonly called "computer literacy," and developing skills in programming in BASIC.

LESSON TITLES:

1. It's Happening Now
2. One Thing After Another
3. Talking to a Machine
4. It's on the Computer
5. The New Media
6. Sound and Moving Pictures
7. Let's Pretend (Games and Simulations)
8. The Thinking Machine
9. In Control
10. Thinks to Come (Impact on the Future)

ACADEMIC AREA: Miscellaneous

DISCIPLINE: Computer Science/Computer Literacy

TITLE: The New Literacy: Introduction to Computers

PRODUCER: Southern California Consortium for Community College Television

FORMAT: Video

NUMBER OF PROGRAMS: 26 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1984 LEVEL: Lower

ANCILLARY MATERIALS: Textbooks, study guide, instructor's guide

RIGHTS: Contact producer

COURSE DESCRIPTION:

Survey of electronic data processing, computer hardware and software systems, and developments that will provide the basis for further advances in information processing. Gives explanation of fundamental computer processes, familiarizes learners with the terminology, examines various applications, and prepares learners to understand and use computers in both their personal and professional lives.

LESSON TITLES:

I. Introductory Computer Concepts
1. The New Literacy
2. The Computing Machine
3. Communicating with a Computer

II. Computer System Data Flow
4. Data Representation
5. Putting Data In
6. Getting Information Out
7. Storage Concepts and Devices
8. Secondary Storage and Processing Methods

III. Computer Systems and Applications
9. Processors
10. Computer Operations
11. Personal Computing
12. From Micros to Monsters

IV. System Design and Programming
13. System Analysis and Design
14. Problem Solving and Program Design
15. Programming Languages
16. The Programming Environment
17. A Case Study

V. Enhanced System Capabilities
18. Operating Systems
19. Other System Concepts
20. Computer Files, Databases, and Management Information Systems
21. Data Communications
22. Office Automation
23. Computer Usage Options

VI. Computing and Society
24. Computing, Organizations, and the Individual
25. Computer Security: A Hierarchy of Hazards
26. Issues and Trends in Computing

ACADEMIC AREA: Miscellaneous

DISCIPLINE: Computer Science/Programming

TITLE: Programming for Computers

PRODUCER: Indiana University, Bloomington

FORMAT: Video

NUMBER OF PROGRAMS: 13 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: 1983 LEVEL: Lower, upper

ANCILLARY MATERIALS: Textbook, programming for microcomputers: Apple II BASIC

RIGHTS: Contact producer

COURSE DESCRIPTION:

Uses top-down and block structure approach to planning programs (including how to use grid sheets), to coding, and to testing (to remove errors from programs). Students begin writing short programs and finish with long, well-documented programs. Course employs Applesoft version of BASIC; it may be necessary to make modifications to use the programs with computers other than the Apple II, but concepts remain the same and modifications are not extensive.

LESSON TITLES:

1. Introduction
2. Getting Started
3. Alphanumeric Expressions
4. Numeric Operations
5. Format and Edit Commands
6. Storing and Retrieving Programs
7. Variables
8. Input Statements
9. Branching and Looping
10. Designing a Program
11. Subroutines
12. Program Construction
13. Functions
14. Read...Data Statements
15. Strings
16. Nested Loops
17. More About Program Design
18. Single Subscripted Variables
19. Double Subscripted Variables
20. More About Program Construction

ACADEMIC AREA: Miscellaneous

DISCIPLINE: Secretarial Skills

TITLE: Century 21 Shorthand

PRODUCER: Miami-Dade Community College

FORMAT: Video

NUMBER OF PROGRAMS: 45 LENGTH OF PROGRAMS: 30 min.

PRODUCTION DATE: Not supplied LEVEL: Lower

ANCILLARY MATERIALS: Textbook, 16 audiocassettes, study guide, instructor's guide

RIGHTS: Contact Southern Publishing Company

COURSE DESCRIPTION:

Century 21 Shorthand focuses on increasing learning rates by using single-direction symbols. Consistent joining patterns are also featured in this phonetically applied shorthand system.

LESSON TITLES:

Information not supplied

FORTHCOMING TELECOURSES AND PROJECTS FROM THE ANNENBERG/CPB PROJECT

TELECOURSES

Economics U$A

The Educational Film Center, Wharton Econometric Forecasting Associates, and the Joint Council on Economic Education will develop a series on the basic principles of micro- and macro-economics. The course will consist of 28 half-hour television programs and 28 half-hour audio programs, a student study guide, a faculty guide, and a new textbook. (Due Fall 1986)

French Language and Culture

Yale University, Wellesley College, and WGBH-Boston will produce a two-semester telecourse on French language and culture. The course will consist of 52 half-hour lessons, plus a 13-part refresher course and audio tapes that can be used in language labs or in students' homes. The course is based on an innovative method that fuses the teaching of language and culture and that has been highly successful in colleges and universities. A textbook/workbook and a teacher's guide will accompany the course. (Due Fall 1986)

Global Understanding

National Public Radio, in conjunction with historians and political scientists, will produce material examining the interrelation of global and national events through distinctly different educational products: two radio/audio courses and five supplementary modules in the same subject areas as the courses. The courses, each composed of 15 half-hour radio/audio programs and ancillary material, will examine political behavior in two world regions with extensive ties to the U.S.--Western Europe and China and Japan. The five modules will be developed for supplemental use in basic political science and government courses. (Due Fall 1984)

The Mechanical Universe I

California Institute of Technology will develop an introductory-level physics course, centered on 26 half-hour programs, that presents the fundamental ideas of classical mechanics. One special feature of the course is that it will teach the calculus required to work with the concepts presented. The project also will include two different types of textbooks and study guides as part of the course--one designed for science majors and the other for non-science majors. Since prerequisites for the course are algebra and trigonometry, students who are weak in these areas will find refresher material in the text for non-science majors. (Due Fall 1985)

The Mechanical Universe II

California Institute of Technology will produce 34 additional lessons in physics, which, when added to the 26 produced as The Mechanical Universe I, will form a complete two-semester introductory physics course. The programs in the first portion of the project will examine classical mechanics. Those in the second portion will deal with electricity and magnetism, relativity, waves and optics, heat and thermodynamics, and modern physics. The full 60-program course will be designed so that it can be used in either a semester or a quarter format and will have ancillary material that will enable colleges and universities to use the material either in courses designed for engineering and science majors or in physics courses for non-engineering or non-science majors. (Due Fall 1986)

Terra Nova

WQED-Pittsburgh will join with the National Academy of Sciences to develop a geophysics course. It will consist of seven one-hour television programs--produced by the team responsible for the "National Geographic Specials"--as well as a new textbook, a student study guide, and an administrator and faculty guide. The course will explore the topics of solar system cosmology, comparative planetology, solid earth geophysics, plate tectonics, mineral resources, energy resources, hydrology, oceanography, climatology, meteorology, the sun, solar-terrestrial interactions, and man's impact on the earth's environment. (Due Fall 1985)

Visual Mathematics Applications Project

The Consortium for Mathematics and Its Applications, a consortium of more than 4,000 mathematics faculty which is based in Newton, Mass., will produce 30 half-hour video lessons with accompanying materials for faculty and students that teach skills and math concepts through their application to contemporary issues. The course will focus on six topic areas: management science, politics, growth, computers, choice and chance, and the physical universe. Each was selected because of its general utility and the relevance of its application to demonstrate the use of mathematics for solving real-world problems. The dynamics of mathematical process, which are often difficult to present and understand, will be illustrated through computer graphics and cel animation. (Due Fall 1985)

Writers Writing

Learning Designs, Inc., in conjunction with WNET-TV, will develop three half-hour television lessons and supporting print materials designed to teach that writing is a process of discovery and exploration. The films will show both professional writers and students carrying out various steps of the writing process. The materials are intended to be a catalyst for modifying the teaching of writing in colleges and universities. (Due Spring 1985)

PROJECTS

Alternative Science Laboratory Experience: Demonstrating Videodisc and Microcomputer Interaction

The University of Nebraska will develop and test experimental interactive videodiscs as alternatives to conventional science laboratory lessons in physics, chemistry, and biology. The effectiveness of the six laboratory experiences will be evaluated at six colleges and universities. The experiment will help colleges and universities assess the potential contribution of videodiscs and microcomputers in providing high quality laboratory instruction. (Due Fall 1984)

American Art Project

The Metropolitan Museum of Art (New York) will design the curriculum and television treatments for a course on American art, develop the form and approach for ancillary materials, and undertake limited experimental production to define approaches for treating decorative and fine arts. Drawing on the resources of the American Wing of the Metropolitan Museum and other locations, this course will examine a broad spectrum of art, including painting, sculpture, decorative arts, and architecture, from the colonial period to the present. (Due Spring 1985)

Electronic Text Demonstration

Through a series of related activites, the Electronic Text Consortium will demonstrate several variations of electronic text including videotext, cabletext, computer simulations and games, and microcomputer networks. The combined products will offer college educators a body of experience by which to assess the technologies. Focus will be on their applications to instruction, but administrative and library applications also will be studied. Members of the consortium are: Center for Communications, San Diego State University; WHA, University of Wisconsin; KUON, University of Nebraska; and WGBH, Boston. (Due Spring 1985).

Experimental Video Production

Highly produced television series, while they are very effective in bringing new dimensions to many courses and in attracting large numbers of students and general viewers, are also very expensive. However, in some subject areas, it may be possible to maintain high interest and to develop very effective instructional material at lower cost. WGBH-Boston will test the feasibility of producing lower-cost high quality telecourses using dynamic "master teachers" and a variety of inexpensive video techniques. (Due Summer 1985)

Introductory College Courses: A Sound-Correspondence Demonstration

The Committee on Institutional Cooperation, Evanston, Ill., will undertake a demonstration project to explore the role that audio/radio components, including drama, interview, documentary material, and other production formats can play in correspondence courses. The project will produce a new introductory correspondence course, developed by the University of Wisconsin, on U.S. history from the colonial period through the Civil War, to include 13 half-hour audio/radio units and print material. The project will also produce audio components designed for use with existing correspondence courses in sociology and psychology. Each set of material will contain 13 half-hour audio components and newly developed or modified print material. Introduction to Sociology will be produced by the University of Wisconsin and Introduction to Psychology by the University of Minnesota. Research will explore the implications of adding audio/radio to correspondence courses for student appeal and learning gain. (Due Fall 1985)

Telecourse Enhancement

The University of South Florida at Tampa will demonstrate and evaluate the use of "electronic mail" to enhance television-based courses for distance learners and overcome their one-way nature. In a controlled experiment, one group of students will take the course Congress: We The People as a regular telecourse, while for another group it will be coupled with an electronic mail system using microcomputers to link students and faculty. The participants' use of the electronic mail system will be documented and student success in each format will be assessed and compared. (Due Spring 1986)

USA

The University of North Carolina and the South Carolina ETV Network will design, produce, and field test a pilot unit for a series on American history since the Civil War. The pilot is for a proposed course that will consider American history from the viewpoint of historians whose theories and interpretations of phenomena frequently diverge or conflict. The course would consist of 13 one-hour television programs, a book of readings that incorporates copies of original source materials, an instructor's guide, a student study guide, and a trade book. (Due Fall 1984)

For further information, contact the Annenberg/CPB Project, 1111 16th Street NW, Washington, DC 20036; 202/955-5251.

TELECOURSE DISTRIBUTORS

Children's Television
International
8000 Forbes Place
Suite 201
Springfield, VA 22151
703/321-8455

Coast Community College
Coast Telecourses
11460 Warner Avenue
Fountain Valley, CA 92708
714/241-6109

Columbia University
Graduate School of Journalism
116th Street & Broadway
New York, NY 10027
212/280-1754

Dallas County Community
College District
Center for Telecommunications
4343 North Highway 67
Mesquite, TX 75150
214/324-7988

Films Incorporated
733 Green Bay Road
Wilmette, IL 60091
312/256-3200
800/323-4222

GPN
Box 80669
Lincoln, NE 68501
402/472-2007
800/228-4630

Indiana University
Audio-Visual Center
Bloomington, IN 47405
812/335-8087

International University
Consortium for
Telecommunications and
Learning
Center for Adult Education
University of Maryland
College Park, MD 20748
301/454-6627

Los Angeles Community College
District
5800 Fulton Avenue
Van Nuys, CA 94101
213/488-0447

Maryland Center for Public
Broadcasting/Maryland College
of the Air/Maryland Instruc-
tional Television
1167 Bonita Avenue
Owings Mills, MD 21117
301/356-5600

Massachusetts Institute of
Technology
Department 99W
77 Massachusetts Avenue
Room 9-234
Cambridge, MA 02139
617/253-7444

Miami-Dade Community College
Product Development and
Distribution
11011 S.W. 104th Street
Miami, FL 33176
305/596-1364

National Public Radio
2025 M Street NW
Washington, DC 20036
202/822-2000

Nebraska ETV Network
P.O.Box 83111
Lincoln, NE 68501
402/472-3611

Northern Virginia Community
College
Extended Learning Institute
8333 Little River Turnpike
Annandale, VA 22003
703/323-3371

Ohio University
Telecommunications Center
Athens, OH 45701
614/594-5244

PBS Adult Learning Service
Public Broadcasting Service
475 L'Enfant Plaza SW
Washington, DC 20024
202/488-5080

Pennsylvania State University
Learning and
Telecommunications Service
212 Keller Boulevard
University Park, PA 16802
814/865-6535

Robert J. Brady Company
Routes 197 and 450
Bowie, MD 20715
301/262-6300

South Carolina ETV Network
Drawer L
Columbia, SC 29250
803/758-7235

Southern California Consortium
for Community College
Television
5400 Orange Avenue
Suite 109
Cypress, CA 90630
714/828-5770

Southern Publishing Company
5101 Madison Road
Cincinnati, OH 45227
573/271-8811

Time-Life Video
Distribution Center
100 Eisenhower Drive
Paramus, NJ 07652
201/843-4545
800/526-4663

TV Ontario
4825 LBJ Freeway
Suite 163
Dallas, TX 75234
214/458-7447

University of Southern
California
University Park
Los Angeles, CA 90089
213/743-2311

WETA-TV
P.O. Box 2626
Washington, DC 20013
703/998-2600

WGBH
125 Western Avenue
Boston, MA 02134
617/492-2777

WNET
356 West 58th Street
New York, NY 10019
212/560-2000

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